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# Mortality of The United States.

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Derived from the U. S. Census Reports  
Supplemented and Modified by Reports  
of State and City Boards of Health and  
various Other Data accumulated from  
Authentic and Reliable Sources.

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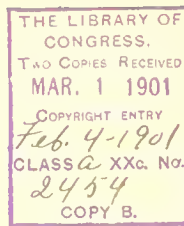
For the purpose of determining the  
effect of Climate, Locality, Congestion of  
Population and Occupation upon  
Mortality.

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Compiled, Tabulated, Arranged and  
Illustrated by J. E. Corvill  
Statistician and Actuary.

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Indianapolis  
1901



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Indianapolis  
1901

## Note by the Compiler.

The following Tables were originally prepared at a considerable expense of time and labor for our own information and use and without thought of their publication in any form. Subsequently a few copies were transcribed for companies at their urgent requests. Later, mention was made of them in some of the insurance journals which brought upon us such a deluge of inquiries that we published a brief descriptive circular in self defense. This instead of bringing relief only increased the burden and as the nature of the compilation became known created a demand which we were wholly unable to supply by the tedious and laborious method of transcribing each copy by hand. We have therefore revamped and rearranged the whole work, added a number of Tables not in the original collection and resorted to this method of reproduction as the only available one of supplying the companies that desire them.

We claim nothing for the Tables except that they constitute in a condensed form the record of facts gleaned from official and reliable sources — facts which we believe are a necessity for every office dealing with life contingencies and with which every office in this country are supplied.

Our work (in itself no small undertaking) has been that of gleaning, tabulating, arranging, classifying, condensing, working out the ratios and illustrating the same by means of comparative diagrams.

## Part I. Aggregate Population.

1. Death Rate of the United States by States as indicated by the U.S. Census Reports of 1850, 1860, 1870 and 1880.
2. Death Rate of the United States by States with Distinction of Sex as indicated by the U.S. Census Reports of 1890.
3. Death Rate by States and Divisions with Illustrative and Comparative Diagram and Map.
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5. Southeastern Division—Death Rate by Groups of Ages with diagram comparing same with Actuaries Table of Mortality.
6. North-Central Division—Death Rate by Groups of Ages with diagram comparing same with Actuaries Table of Mortality.
7. South-Central Division—Death Rate by Groups of Ages with diagram comparing same with Actuaries Table of Mortality.
8. Northwestern Division—Death Rate by Groups of Ages with diagram comparing same with Actuaries Table of Mortality.
9. Southwestern Division—Death Rate by Groups of Ages with diagram comparing same with Actuaries Table of Mortality.
10. United States—Males with diagram comparing same with Actuaries Table of Mortality.
11. United States—Death Rate of Females with diagram comparing same with Actuaries Table of Mortality.
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13. Summary by Divisions and Total by Male, Female, and Aggregate with % of variation from Actuaries Table of Mortality.

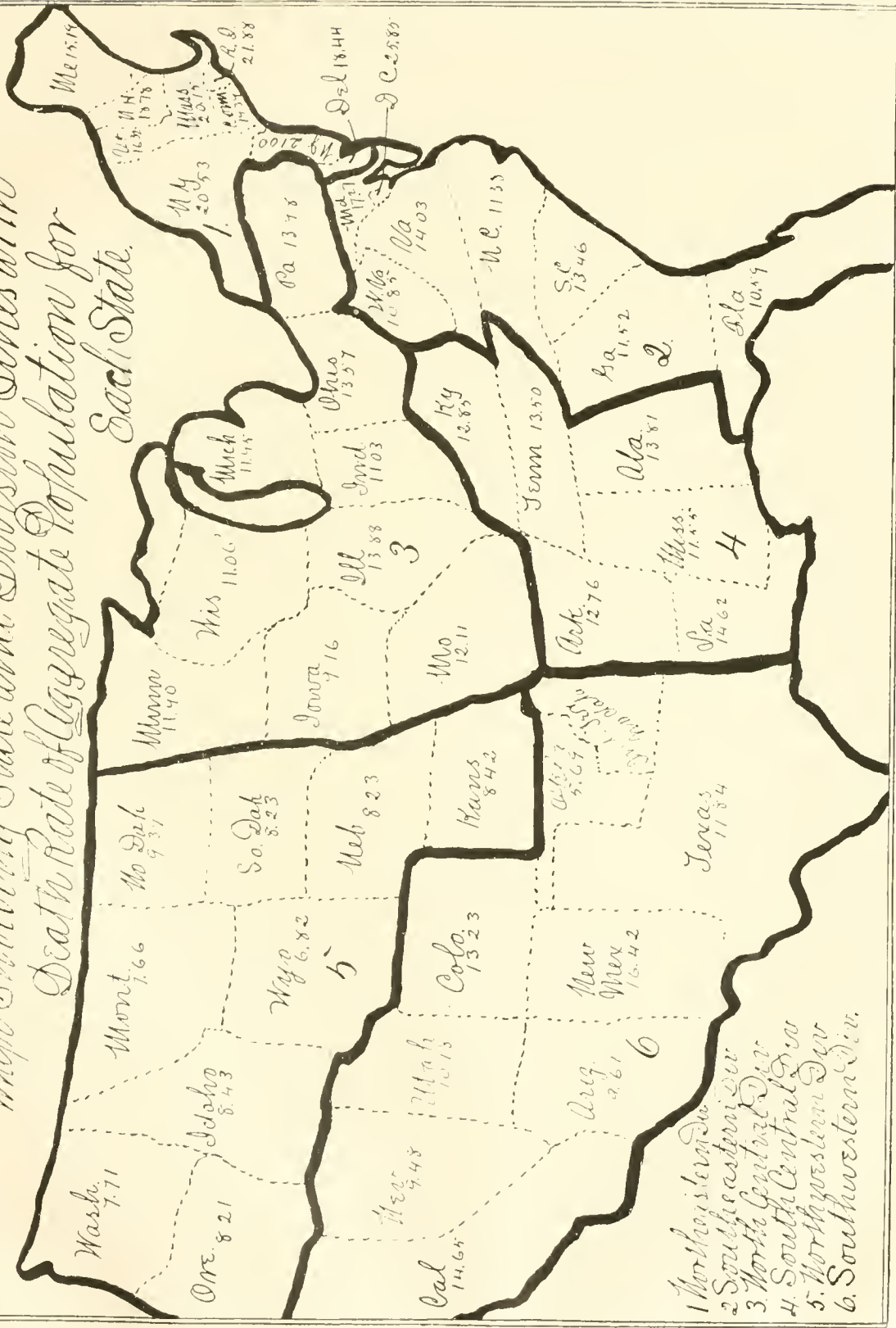
1. Death Rate of the United States by States as indicated by the U.S. Census Reports of 1850, 1860, 1870 and 1880

States	1850	1860	1870	1880	States	1850	1860	1870	1880
Alabama	1180	1320	1080	1420	Mississippi	1440	1540	1108	1289
Arizona	---	---	2609	720	Missouri	1800	1500	1626	1689
Arkansas	1440	2030	1263	1846	Montana	---	---	898	858
California	980	980	1161	1333	Nebraska	---	1320	813	1311
Colorado	---	---	941	1311	Nevada	---	---	1447	1169
Connecticut	1560	1330	1264	1474	New Hampshire	1330	1376	1348	1609
Dakota	---	800	712	965	New Jersey	1320	1120	1168	1633
Delaware	1320	1110	1249	1509	New Mexico	1880	1400	1284	2037
Dist of Col.	1640	1710	1530	2360	New York	1470	1210	1577	1738
Florida	1060	1260	1206	1172	No Carolina	1170	1270	988	1539
Georgia	1100	1210	1149	1397	Ohio	1460	1060	1109	1332
Idaho	---	---	333	970	Oregon	350	570	684	1067
Illinois	1380	1130	1326	1463	Pennsylvania	1230	1040	1495	1492
Indiana	1290	1140	1051	1578	Rhode Island	1520	1420	1260	1700
Indian Ter.	---	---	---	---	So Carolina	1200	1390	1046	1580
Iowa	1060	1080	864	1193	Tennessee	1180	1370	1131	1680
Kansas	---	1460	1248	1522	Texas	1140	1550	1368	1534
Kentucky	1530	1420	1086	1439	Utah	2100	930	1027	1677
Louisiana	2310	1740	1995	1544	Vermont	1000	1060	1072	1512
Maine	1300	1210	1233	1467	Virginia	1340	1410	1239	1632
Maryland	1650	1070	1247	1810	Washington	---	430	931	1005
Massachusetts	1950	1730	1774	1859	W Virginia	---	---	909	1199
Michigan	1140	990	944	1206	Wisconsin	950	920	944	1217
Minnesota	480	640	862	1157	Wyoming	---	---	812	909

2. Death Rat. of the United States by States with Distinction of Sex as indicated by the U.S. Census Reports for 1890

States	Males	Females	Total	States	Males	Females	Total
Alabama	14.03	13.59	13.81	Montana	7.91	7.16	7.66
Arizona	10.25	8.59	9.61	Nebraska	8.24	8.23	8.23
Arkansas	13.14	12.34	12.76	Nevada	11.19	6.47	9.48
California	15.92	12.91	14.65	New Hamp.	19.08	18.50	18.79
Colorado	13.20	13.27	13.23	New Jersey	22.30	19.71	21.00
Connecticut	20.38	18.42	19.39	New Mexico	16.05	16.86	16.42
Delaware	19.31	17.53	18.44	New York	21.94	19.14	20.53
Dist. of Col.	28.94	23.04	25.85	No. Carolina	11.51	11.26	11.38
Florida	10.99	10.15	10.59	No. Dakota	9.24	9.58	9.39
Georgia	11.62	11.43	11.52	Ohio	14.24	12.89	13.57
Idaho	8.13	8.88	8.43	Oklahoma	6.07	5.20	5.69
Illinois	14.62	13.10	13.88	Oregon	8.46	7.85	8.21
Indiana	11.16	10.89	11.03	Pennsylvania	14.82	13.13	13.98
Indian Ter.	No data	---	---	Rhode Island	22.74	21.06	21.88
Iowa	9.32	8.99	9.16	So. Carolina	13.59	13.33	13.46
Kansas	8.48	8.33	8.42	So. Dakota	7.85	8.68	8.23
Kentucky	13.35	12.33	13.85	Tennessee	13.77	13.22	13.50
Louisiana	15.88	12.36	14.62	Texas	12.47	11.15	11.84
Maine	16.01	14.37	15.19	Utah	10.34	10.02	10.19
Maryland	17.96	16.59	17.27	Vermont	15.69	16.97	16.32
Massachusetts	20.91	19.43	20.15	Virginia	14.53	13.51	14.03
Michigan	12.23	11.64	11.95	Washington	7.20	8.56	7.71
Minnesota	12.06	11.71	11.90	W. Virginia	11.01	10.69	10.85
Mississippi	11.90	11.20	11.55	Wisconsin	11.48	10.62	11.06
Missouri	12.62	11.56	12.11	Wyoming	6.86	6.74	6.82
United States					14.74	13.15	13.94

# Map Showing State and Division Lines with Death Rate of Aggregate Population for Each State.



1. Northeastern Div.
2. Southeastern Div.
3. North Central Div.
4. South Central Div.
5. North Western Div.
6. South Western Div.

3. Death Rate of the United States by States and Divisions  
with Illustrative and Comparative Diagram

**Death Rate**

**Northeastern Division**

Death Rate	State
21.88	Rhode Island
21.00	New Jersey
20.53	New York
20.15	Massachusetts
19.39	Connecticut
18.78	New Hampshire
18.44	Delaware
16.32	Vermont
15.19	Maine

**South Central Division**

Death Rate	State
14.62	Louisiana
13.81	Alabama
13.50	ennessee
12.85	Kentucky
12.76	Arkansas
11.55	Mississippi

**Northern Division**

Death Rate	State
9.35	North Dakota
8.43	Idaho
8.42	Kansas
8.23	South Dakota
8.23	Nebraska
8.21	Oregon
7.71	Washington
7.66	Montana
6.82	Wyoming

**Southeastern Division**

Death Rate	State
25.85	District of Columbia
17.22	Maryland
14.03	Virginia
13.46	South Carolina
11.57	Georgia
11.38	North Carolina
10.85	West Virginia
10.59	Florida

**North Central Division**

Death Rate	State
13.98	Pennsylvania
13.88	Illinois
13.27	Ohio
12.11	Missouri
11.94	Michigan
11.41	Minnesota
11.06	Wisconsin
11.03	Indiana
9.16	Iowa

**Southwestern Division**

Death Rate	State
16.42	New Mexico
14.65	California
13.23	Colorado
11.84	Texas
10.18	Utah
9.61	Arizona
9.48	Nevada
5.69	Oklahoma

**Summary - By Divisions**

Death Rate	Division
20.00	Northeastern
13.20	Southeastern
13.17	South Central
12.70	Southwestern
12.58	North Central
8.26	Northwest
13.94	United States

# 4. Northeastern Division Death Rate by Groups of Ages

Ages	Lives	Deaths	Death Rate	Actuaries Table
Unknown	29707	1197	40.29	..
Under 5	1195097	85002	71.13	----
5-9	1159397	7794	6.98	----
10-14	1133028	3966	3.50	6.82
15-19	1194171	6793	5.67	7.07
20-24	1272688	10210	8.02	7.47
25-29	1138324	10947	9.62	8.01
30-34	989272	10083	10.19	8.75
35-39	838416	9879	11.78	9.70
40-44	727374	9157	12.58	10.96
45-49	632443	9671	15.29	13.58
50-54	556619	10008	17.98	18.02
55-59	409139	10055	24.58	24.80
60-64	365703	11208	30.65	35.35
65-69	262140	11852	45.21	51.78
70-74	194007	11638	59.99	76.25
75-79	112771	11002	97.56	112.14
80-84	62606	8598	137.34	164.13
85-89	23951	5037	210.30	250.49
90-94	7092	1854	261.42	412.70
95 & over	1654	548	361.55	735.05

The diagram below is illustrative of Table 4 and shows its relation to the Actuaries Table of Mortality for the Age Groups indicated. The perpendicular columns represent the death rate of the Northeastern Division and the circular black line represents the Actuaries Table of Mortality.

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# 5 Southeastern Division Death Rate by Groups of Ages

Ages	Lives	Deaths	Death Rate	Actuarial Table
Unknown	22933	1256	54.77	.....
Under 5	1197005	42246	35.21	.....
5-9	1218478	4297	4.04	.....
10-14	1159306	3586	3.09	6.82
15-19	977054	5963	6.10	7.07
20-24	810284	6514	8.04	7.47
25-29	612972	5283	8.62	8.01
30-34	536626	4264	8.62	8.75
35-39	492786	4696	9.53	9.70
40-44	394967	4436	11.23	10.96
45-49	329157	3909	11.88	13.58
50-54	289592	3915	13.52	18.02
55-59	190567	3163	16.60	24.80
60-64	179525	4214	23.53	35.35
65-69	121582	4110	33.80	51.78
70-74	85680	4387	51.20	76.25
75-79	47636	3408	71.54	112.14
80-84	26314	2557	97.21	164.13
85-89	9889	1357	137.22	250.49
90-94	3802	588	154.66	412.70
95 & over	2462	407	165.31	735.05

The diagram below is illustrative of Table 5 and shows its relation to the Actuarial Table of Mortality for the Age Groups indicated.

The perpendicular columns represent the death rate of the Southeastern Division and the circular black line represents the Actuarial Table of Mortality.

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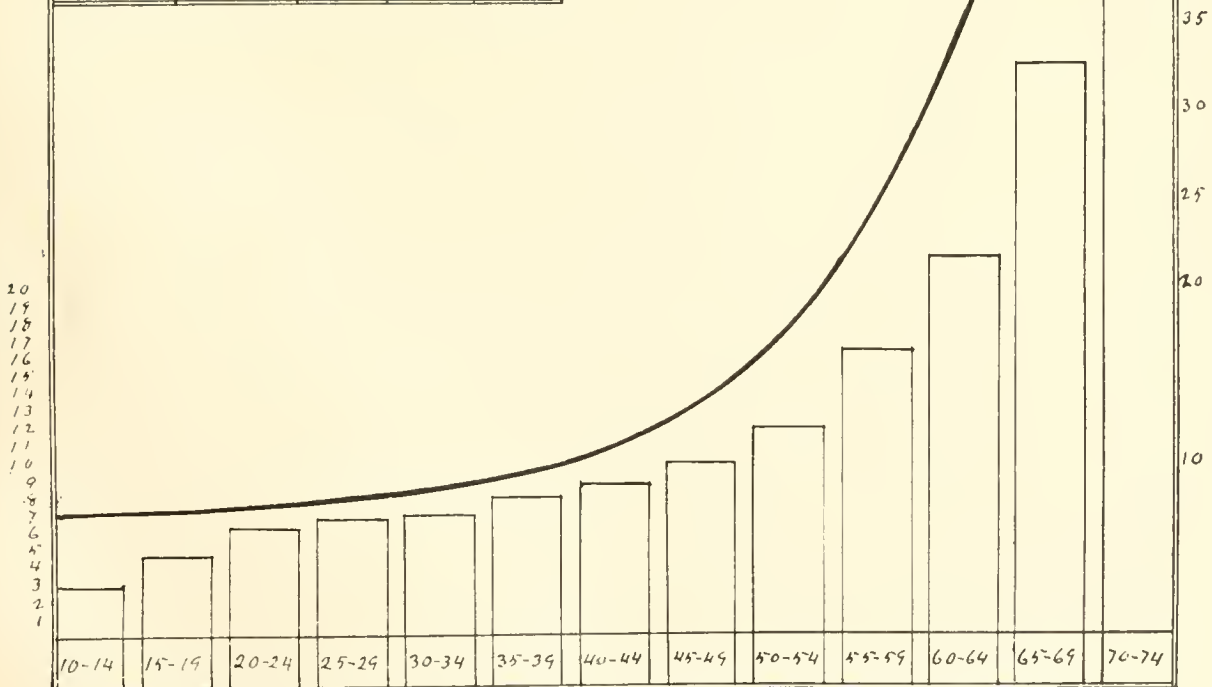
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# 6. North Central Division Death Rate by Groups of Ages

Ages	Lives	Deaths	Death Rate	Actuaries Table
Unknown	50730	3313	65.31	-----
Under 5	2,936,344	109,214	37.19	-----
5-9	2,906,203	14,014	4.82	-----
10-14	2,673,049	7,828	2.93	6.82
15-19	2,560,655	11,663	4.55	7.07
20-24	2,468,571	15,290	6.19	7.47
25-29	2,103,891	14,329	6.81	8.01
30-34	1,854,045	12,696	6.85	8.75
35-39	1,513,858	11,966	7.90	9.70
40-44	1,256,671	10,592	8.43	10.96
45-49	1,080,735	10,673	9.88	13.58
50-54	925,577	11,024	11.91	18.02
55-59	693,614	11,137	16.06	24.80
60-64	595,055	12,806	21.52	35.35
65-69	425,584	13,807	32.44	51.78
70-74	294,178	13,797	46.90	76.25
75-79	164,662	11,764	71.44	112.14
80-84	80,647	8,302	102.94	164.13
85-89	28,876	4,448	154.04	250.49
90-94	7,881	1,466	186.02	412.70
95 Over	2,134	553	259.14	735.05

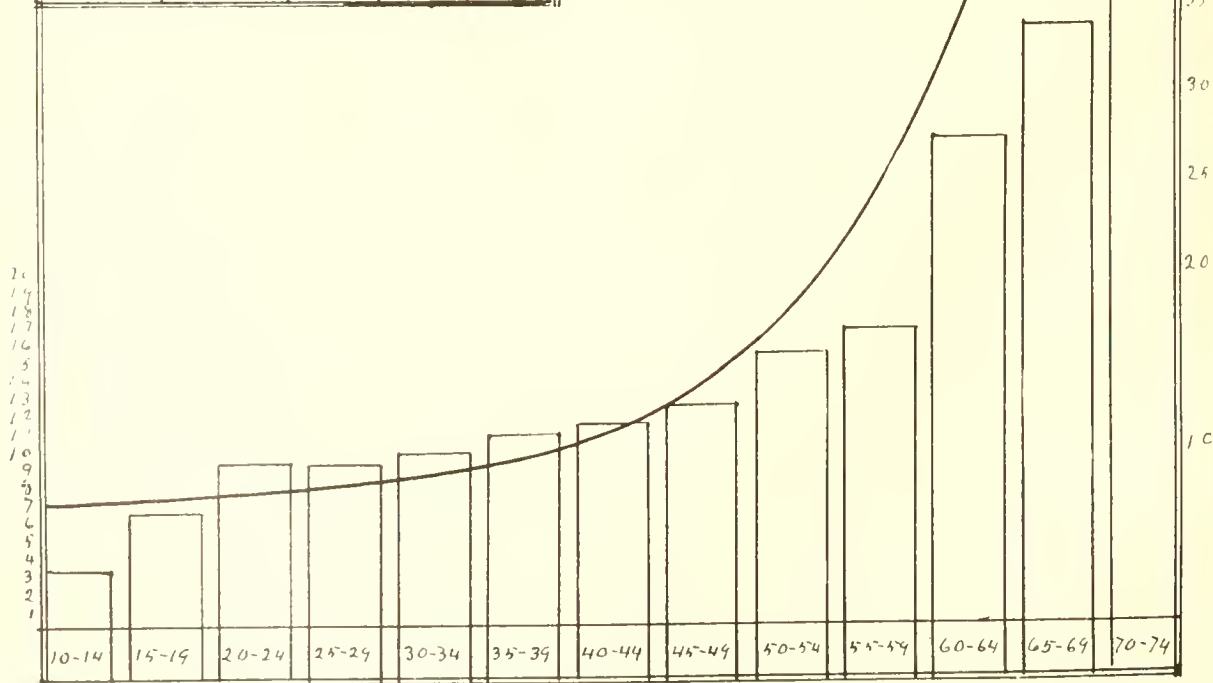
The diagram below is illustrative of Table 6 and shows its relation to the Actuaries' Table of Mortality for the Age Groups indicated. The perpendicular columns represent the death rate of the North Central Division and the circular black line represents the Actuaries' Table of Mortality.



# 7. South Central Division Death Rate by Groups of Ages.

Ages	Lives	Deaths	Death Rate	Actuarial Table
Unknown	26 689	2 026	7589	----
Under 5	1 240 662	40 024	32 26	----
5-9	1 244 843	5 478	440	----
10-14	1 154 803	3 894	337	682
15-19	999 072	6 401	6.41	707
20-24	821 594	7 448	9.07	747
25-29	618 045	5 572	9.02	801
30-34	526 949	5 157	9.79	8.75
35-39	477 137	5 150	10.86	9.70
40-44	372 779	4 173	11.19	10.96
45-49	330 956	4 031	12.18	13.58
50-54	270 019	4 057	15.03	18.02
55-59	184 547	3 040	16.47	24.80
60-64	157 199	4 253	27.05	35.35
65-69	105 093	3 520	33.49	51.78
70-74	70 473	3 493	49.57	76.25
75-79	39 588	2 714	68.56	112.14
80-84	21 121	2 093	99.10	164.13
85-89	8 018	1 015	126.59	250.44
90-94	3 406	490	143.86	412.70
95 & OVER	2 452	404	164.76	735.05

The diagram below is illustrative of Table 7 and shows its relation to the Actuarial table of Mortality for the Age Groups indicated. The perpendicular columns represent the death rate of the South Central Division and the circular black line represents the Actuarial table of Mortality.

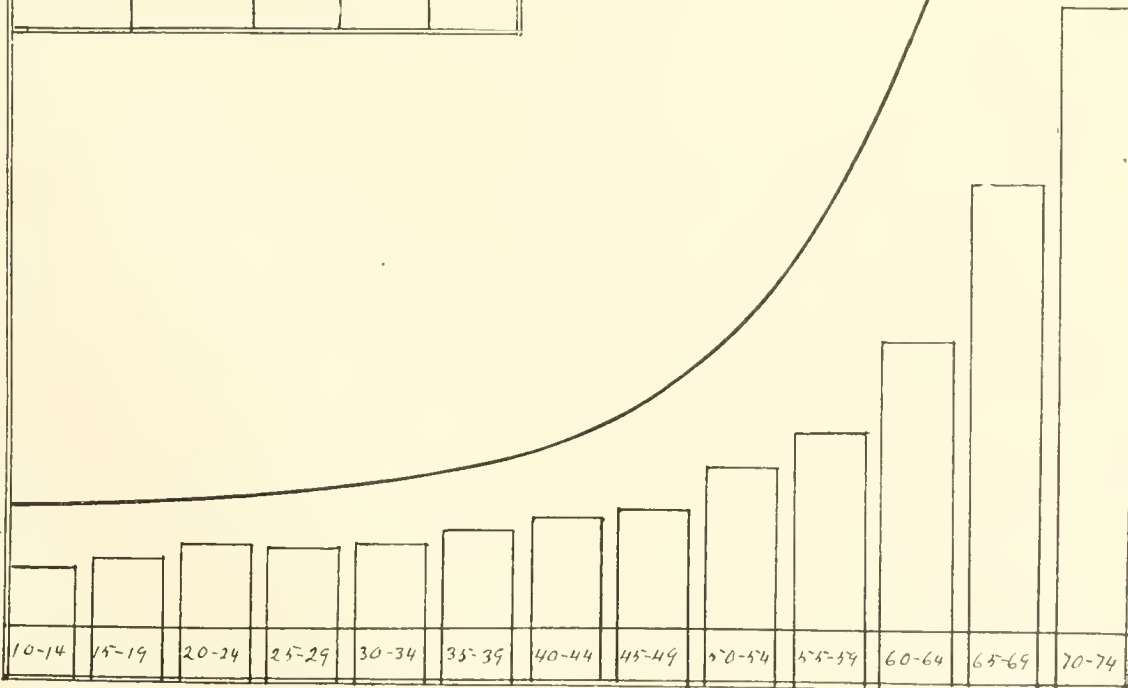


# 8. Northwestern Division Death Rate by Groups of Ages

Ages	Vires	Deaths	Death Rate	Actuaries Table
Unknown	9.727	650	66.82	---
Under 5	516010	12586	2439	---
5-9	491105	2047	417	---
10-14	421946	1313	311	6.82
15-19	382372	1449	392	7.07
20-24	395392	1901	481	7.47
25-29	371943	1729	465	8.01
30-34	330027	1566	475	8.75
35-39	256866	1420	553	9.70
40-44	201735	1265	627	10.96
45-49	168865	1168	692	13.58
50-54	134452	1228	913	18.02
55-59	93609	1038	1109	24.80
60-64	70372	1160	1648	35.35
65-69	44483	1127	2534	51.78
70-74	26967	957	3549	76.25
75-79	13551	658	4856	112.14
80-84	5818	402	6910	164.13
85-89	2033	232	11412	250.49
90-94	499	81	16232	412.70
95 & Over	177	37	209.04	735.05

The diagram below is illustrative of Table 8 and shows its relation to the Actuaries Table of Mortality for the Age Groups indicated. The perpendicular columns represent the death rate of the Northwestern Division and the circular black line represents the Actuaries Table of Mortality.

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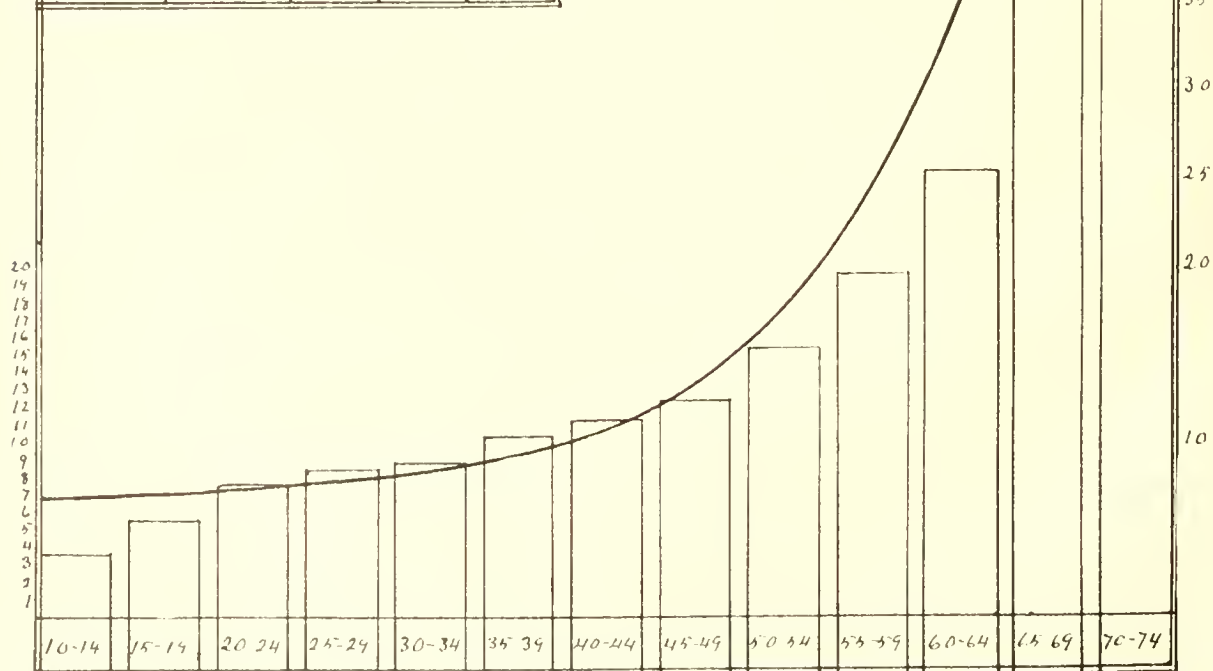


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# 9. Southwestern Division Death Rate by Groups of Ages

Ages	Survivors	Deaths	Death Rate	Actuaries Table
Unknown	22,370	989	44.21	---
Under 5	558,585	18,522	33.16	---
5-9	553,652	2,996	5.41	---
10-14	500,376	1,791	3.58	6.82
15-19	439,439	2,450	5.59	7.07
20-24	428,147	3,205	7.49	7.47
25-29	382,122	3,166	8.29	8.01
30-34	341,771	3,049	8.92	8.75
35-39	287,098	2,964	10.32	9.70
40-44	231,792	2,662	11.05	10.96
45-49	189,479	2,342	12.36	13.58
50-54	150,003	2,258	15.05	18.02
55-59	100,860	1,960	19.43	24.80
60-64	90,180	2,260	25.06	35.35
65-69	50,928	1,792	35.19	51.78
70-74	30,446	1,468	48.22	76.25
75-79	14,854	1,032	69.48	112.11
80-84	7,345	675	91.90	164.13
85-89	2,464	315	127.84	250.49
90-94	974	100	102.67	412.70
95 & over	670	94	140.30	735.05

The diagram below is illustrative of Table 9 and shows its relation to the Actuaries Table of Mortality for the Age Groups indicated. The perpendicular columns represent the death rate of the Southwestern Division and the circular black line represents the Actuaries Table of Mortality.

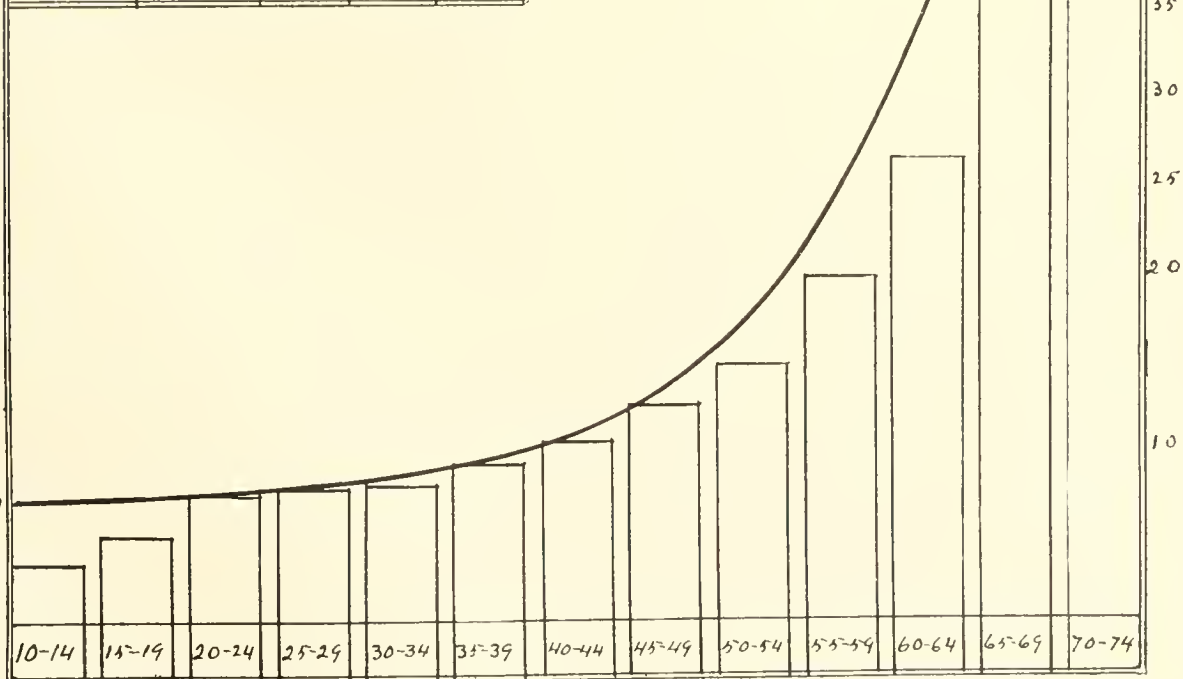


# 10. United States Death Rate of Males by Groups of Ages

Ages	Lives	Deaths	Death Rate	Actuaries Table
Unknown	103,529	5,338	51.56	-----
Under 5	3,884,869	167,798	43.19	-----
5-9	3,830,352	18,794	4.91	-----
10-14	3,574,787	11,111	3.11	682
15-19	3,248,711	16,114	4.96	7.07
20-24	3,104,893	22,558	7.27	7.47
25-29	2,698,311	20,692	7.67	8.01
30-34	2,425,664	18,694	7.71	8.75
35-39	2,051,044	18,437	8.99	9.70
40-44	1,654,604	16,837	10.12	10.96
45-49	1,418,102	17,447	12.30	13.58
50-54	1,208,922	17,588	14.55	18.02
55-59	871,663	17,028	19.54	24.80
60-64	758,710	19,746	26.03	35.35
65-69	525,627	20,012	38.07	51.78
70-74	363,642	19,625	53.97	76.25
75-79	199,093	16,418	82.46	112.14
80-84	97,862	11,460	117.10	164.13
85-89	34,063	5,834	171.27	250.49
90-94	9,848	1,958	201.87	412.70
95 & Over	3,584	811	226.28	735.05

The diagram below is illustrative of Table 70 and shows its relation to the Actuaries Table of Mortality for the Age Groups indicated. The perpendicular columns represent the death rate of Males in the United States and the circular black line represents the Actuaries Table of Mortality.

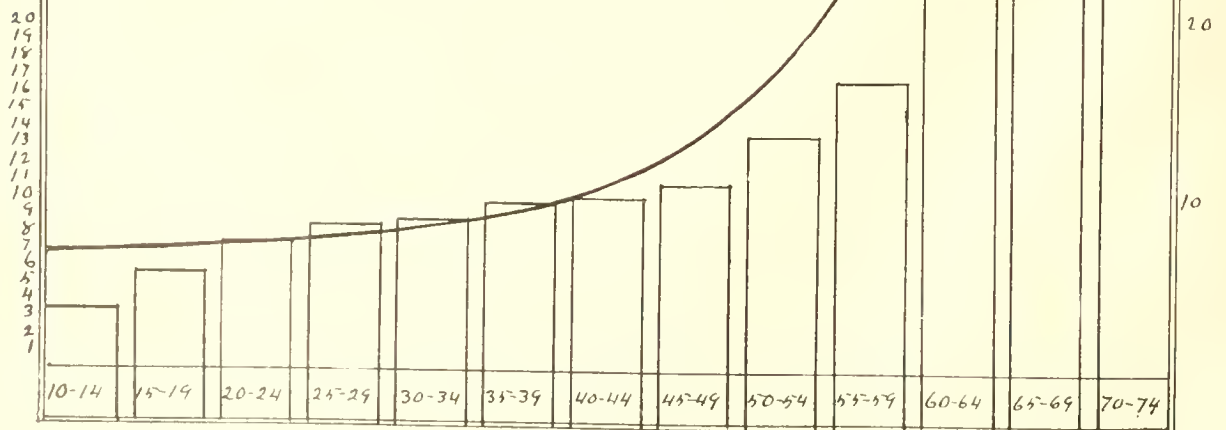
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# 11 United States Death Rate of Females by Groups of Ages

Ages	Lives	Deaths	Death Rate	Actuaries Table
Unknown	58,636	4,066	6.934	-----
Under 5	3,749,824	139,764	37.27	-----
5-9	3,743,646	18,465	4.93	-----
10-14	3,458,722	11,255	3.25	6.82
15-19	3,308,852	18,270	5.52	7.07
20-24	3,091,783	22,011	7.12	7.47
25-29	2,529,466	20,620	8.15	8.01
30-34	2,152,966	18,458	8.57	8.75
35-39	1,815,117	17,577	9.68	9.70
40-44	1,530,914	15,139	9.90	10.96
45-49	1,313,538	14,137	10.76	13.58
50-54	1,117,340	14,796	13.24	18.02
55-59	800,673	13,279	16.58	24.80
60-64	699,324	15,922	22.77	35.35
65-69	484,483	16,049	33.13	51.78
70-74	338,109	16,015	47.37	76.25
75-79	193,969	13,944	71.89	112.14
80-84	105,989	11,159	105.28	164.13
85-89	41,177	6,371	154.72	250.49
90-94	13,797	2,572	187.87	412.70
95 Over	6,045	1,282	212.08	735.05

The diagram below is illustrative of Table 11 and shows its relation to the Actuaries Table of Mortality for the age groups indicated. The perpendicular columns represent the death rate of Females in the United States and the circular black line represents the Actuaries Table of Mortality

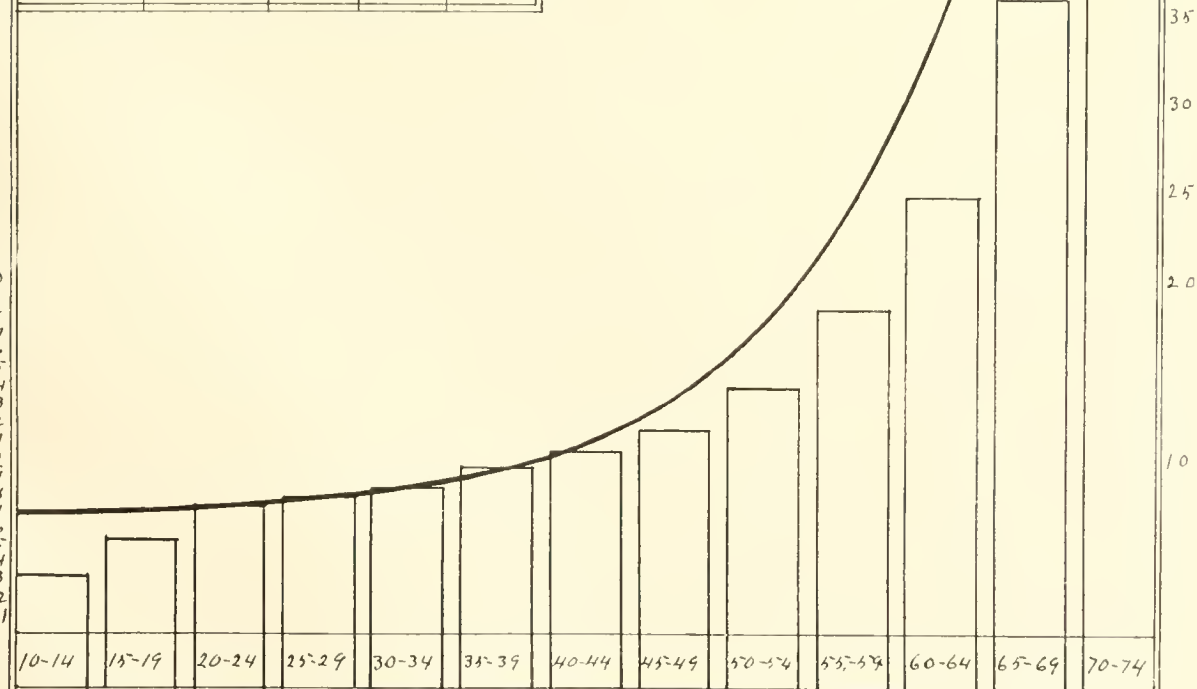


# 12. United States Death Rate of Aggregate Population by Groups of Ages

Ages	Lives	Deaths	Death Rate	Actuaries Table
Unknown	162,165	9,404	5.737	---
Under 5	764,370	30,754	40.24	---
5-9	7,574,178	37,456	4.95	---
10-14	7,042,506	22,378	3.18	6.82
15-19	6,557,763	34,177	5.21	7.07
20-24	6,196,676	44,568	7.19	7.47
25-29	5,227,177	41,026	7.85	8.01
30-34	4,578,690	37,175	8.12	8.75
35-39	3,866,161	36,105	9.34	9.70
40-44	3,185,518	32,314	10.14	10.96
45-49	2,731,640	31,794	11.64	13.58
50-54	2,326,257	32,490	13.97	18.02
55-59	1,672,336	30,393	18.17	24.80
60-64	1,458,034	35,901	24.62	35.35
65-69	1,009,810	36,208	35.86	51.78
70-74	701,751	35,740	50.93	76.25
75-79	393,062	30,578	77.79	112.14
80-84	203,851	22,627	111.00	164.13
85-89	75,234	12,404	164.88	250.49
90-94	23,654	4,579	193.58	412.70
95 & Over	9,549	2,093	219.18	735.05

The diagram below is illustration of Table 12 and shows its relation to the Actuaries' Table of Mortality for the Age Groups indicated. The perpendicular columns represent the death rate of the aggregate population of the United States and the circular black line represents the Actuaries' Table of Mortality.

20  
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1



13. Summary - By Divisions and for the United States.  
Death Rate by Groups of Ages and comparing same  
with Actuaries' Table of Mortality

Ages	N.E. Div.	S.E. Div.	N.C. Div.	S.C. Div.	N.W. Div.	S.W. Div.	U. S. Males	U. S. Females	U. S. Aggregate	Actuaries Table	Actuaries Table to 25 years
Unknown	40.29	54.77	65.31	55.21	61.42	44.21	51.56	69.34	57.37	...	...
Under 5	71.13	35.21	37.19	32.26	25.67	33.16	43.19	37.27	40.24	...	...
5-9	6.98	4.04	4.84	4.40	4.46	5.41	4.91	4.93	4.95	...	...
10-14	3.50	3.09	2.93	3.37	3.04	3.58	3.11	<u>3.25</u>	3.18	6.82	214.47
15-19	5.67	6.10	4.55	6.41	3.92	5.59	4.96	<u>5.52</u>	5.21	7.07	135.70
20-24	8.02	8.04	6.19	9.07	4.81	7.49	7.27	7.12	7.19	7.47	103.89
25-29	9.62	8.62	6.81	9.02	4.65	8.29	7.67	<u>8.15</u>	7.85	8.01	102.04
30-34	10.19	8.62	6.85	9.79	4.75	8.92	7.71	<u>8.57</u>	8.12	8.75	107.76
35-39	11.78	9.53	7.90	10.56	5.53	10.32	8.99	<u>9.68</u>	9.34	9.70	103.85
40-44	12.58	11.23	8.43	11.19	6.27	11.05	10.12	9.90	10.14	10.96	108.09
45-49	15.29	11.85	9.88	12.18	6.92	12.36	12.30	10.76	11.64	13.58	116.67
50-54	17.95	13.52	11.91	15.03	9.13	15.05	14.55	13.24	13.97	18.02	128.99
55-59	24.58	16.60	16.06	16.47	11.09	19.43	19.54	16.58	18.17	24.80	136.49
60-64	30.65	23.53	21.52	27.05	16.48	25.06	26.03	22.77	24.67	35.35	143.58
65-69	45.21	33.80	32.44	33.49	25.34	35.19	38.07	33.13	35.86	51.78	144.39
70-74	59.99	51.20	46.90	49.57	35.49	48.22	53.97	47.37	50.93	76.25	149.72
75-79	97.56	71.54	71.44	68.56	48.56	69.48	82.46	71.89	77.99	112.14	143.79
80-84	137.34	97.21	102.94	99.10	69.10	91.90	117.10	105.28	110.99	164.13	147.88
85-89	210.30	137.22	154.04	126.59	114.12	127.84	171.27	154.72	164.88	250.49	151.92
90-94	261.42	154.66	186.02	143.86	162.32	102.67	201.87	187.87	193.58	412.70	213.19
OVER 95	361.55	165.31	259.14	164.76	209.04	140.30	226.28	212.08	229.66	735.05	320.06

Note - Age groups having a higher death rate than is indicated by the Actuaries' Table of Mortality are enclosed in double column lines.

Note - The Age groups underscored in the "Female" death rate column show a higher ratio than "Males" for the same ages.

## Authors Comment.

Tables 3 to 9 inclusive and 12 and 13 represent the death rate of the whole population including both sexes and all races, classes and conditions. While for this reason they may not constitute a proper basis for the determination of net premiums they are nevertheless very valuable and very suggestive and unquestionably demonstrate two things.

- (1) The Octonaries Table of Mortality (an English production) is not an accurate exponent of the death rate of this country. Being of English origin it may answer very well in its native country and for English lives, but it does not tell the truth in the United States. It is most singular that this Table which correctly represents the death rate of no part of the United States, should come to be the accepted standard of a majority of companies and the legal standard in a majority of the states. It should be borne in mind that the Tables in Part I herein, representing the death rate of the whole population, in which no medical selection or any kind of selection is considered, register a much higher death ratio than should be experienced by any company making a judicious selection of risks. Yet this death ratio of the whole population comprising all races classes and conditions, including the sick with the well, the weak with the strong; persons engaged in unhealthy and hazardous occupations, as well as those in healthier and less dangerous pursuits nevertheless falls many degrees below the death rate indicated by the Octonaries Table which is supposed to be a record of the mortality experience of selected lives.

In the North Central and Northwestern Divisions (see Tables and diagrams band 8) it does not touch the line of the Octonaries Table in any group of ages, nor does the average for all ages equal it in any Division. Many companies boast of a death rate below the standard. Why should not they have with such a standard?

A Mortality Table is the companies yard stick for measuring life contingencies. If it does not register correctly it is worthless for the purpose for which it was constructed.

- (2) These Tables also demonstrate that no one mortality table can be made to do duty for the whole United States. The country is too big and the variation of conditions too great. With a fluctuation of more than 300% the extremes are too far apart to be brought together under a common average. If it is correct insurance practice to charge in proportion to the risk involved (and surely no one can doubt it) then the question of localities and of the prevailing death rate therein must be considered as a factor in determining the measure of risk involved.

## Part III. Colored Population.

1. Death Rate by States with Distinction of Sex.
2. Death Rate in Cities of 25,000 and Over.

## Death Rate by States with Distinction of Sex. \*

States	Males	Females	Total	States	Males	Females	Total
Alabama	15.79	15.40	15.58	Montana	a----	a----	66.90
Arizona	a----	a----	27.43	Nebraska	a----	a----	18.55
Arkansas	11.80	11.64	11.72	Nevada	a----	a----	5.99
California	a----	a----	13.65	New Hamp.	22.78	27.12	24.64
Colorado	a----	a----	13.45	New Jersey	27.78	27.81	27.80
Connecticut	24.52	23.70	24.10	New Mexico	a----	a----	25.75
Delaware	25.25	23.61	24.55	New York	28.06	23.45	25.75
Dist. of Col.	43.54	33.92	38.22	No. Carolina	13.02	12.70	12.86
Florida	11.04	10.65	10.85	No. Dakota	a----	a----	226.51
Georgia	12.46	13.09	12.77	Ohio	23.37	22.32	22.86
Idaho	a----	a----	22.81	Oklahoma	a----	a----	43.23
Illinois	17.62	18.04	17.81	Oregon	a----	a----	12.49
Indiana	18.84	18.92	12.87	Pennsylvania	22.12	21.28	21.71
Indian Terr.	No data		----	Rhode Island	31.16	27.66	29.29
Iowa	a----	a----	16.65	So. Carolina	15.01	15.31	15.16
Kansas	a----	a----	14.24	So. Dakota	a----	a----	496.71
Kentucky	17.06	16.35	16.70	Tennessee	18.20	16.96	17.57
Louisiana	14.61	12.95	13.77	Texas	11.08	10.12	10.60
Maine	19.27	17.92	18.16	Utah	a----	a----	24.43
Maryland	21.24	19.74	20.48	Vermont	9.11	17.58	12.95
Massachusetts	26.36	26.50	26.73	Virginia	17.75	16.31	17.01
Michigan	18.53	20.82	19.61	Washington	a----	a----	21.18
Minnesota	a----	a----	37.41	W. Virginia	15.93	15.78	15.86
Mississippi	11.56	11.43	11.49	Wisconsin	a----	a----	29.81
Missouri	19.09	17.98	18.54	Wyoming	a----	a----	58.04

\*. Chinese, Japanese, Civilized Indians and persons of Negro Descent are included in "Colored Population".

a- Could not separate male and female deaths satisfactorily.

2 Death Rate of Colored Population in Cities of  
25,000 and Over.

Cities	Death Rate	Cities	Death Rate	Cities	Death Rate	Cities	Death Rate
Akron O	11.06	Dubuque Ia	39.06	Clym Mass	50.07	St. Louis Mo	34.54
Albany N.Y.	39.44	Duluth Minn.	....	Manchester N.H.	....	St. Paul Minn.	23.62
Allegheny Pa	24.13	Elizabeth N.J.	22.99	Memphis Tenn.	29.97	Salem Mass.	33.15
Allentown "	....	Elmira N.Y.	12.18	Milwaukee Wis.	25.64	Salt Lake Utah	6.77
Altoona "	19.48	Erie Pa	....	Minneapolis Minn.	20.68	San Antonio Tex.	23.24
Atlanta Ga	33.57	Evansville Ind.	44.67	Mobile Ala	43.74	San Francisco Cal.	24.06
Auburn N.Y.	58.00	Fall River Mass.	14.35	Washville Tenn.	23.91	Savannah Ga.	41.47
Augusta Ga	37.00	Fort Wayne Ind.	8.58	Newark N.J.	44.48	Seranton Pa.	24.91
Baltimore Md.	36.41	Galveston Tex.	25.28	New Bedford Mass.	31.92	Seattle Wash.	7.68
Bay City Mich.	12.50	Gr. Rapids Mich.	20.93	New Haven Conn.	15.98	Sioux City Ia.	2.72
Birmingham Ala.	53.24	Harrisburg Pa.	11.34	New Orleans La.	36.60	Somerville Mass.	....
Boston Mass.	33.29	Hartford Conn.	35.07	New York N.Y.	37.47	Springfield "	23.78
Bridgeport Conn.	37.20	Haverhill Mass.	14.49	Norfolk Va.	17.04	Springfield O.	34.63
Brockton Mass.	....	Hoboken N.J.	11.50	Oakland Cal.	11.30	Syracuse N.Y.	11.53
Brooklyn N.Y.	31.99	Holyoke Mass.	32.26	Omaha Neb.	9.45	Tacoma Wash.	9.26
Buffalo "	34.22	Houston Tex.	9.63	Paterson N.J.	35.56	Taunton Mass.	6.90
Cambridge Mass.	35.22	Indianapolis Ind.	30.04	Pawtucket R.I.	8.69	Terre Haute Ind.	27.90
Camden N.J.	33.73	Jersey City N.J.	29.50	Peoria Ill.	2.25	Toledo O.	24.88
Canton O.	....	Kansas City Kans.	14.59	Philadelphia Pa.	32.42	Topeka Kans.	16.67
Charleston S.C.	53.94	Kansas City Mo.	33.75	Pittsburg "	29.16	Trenton N.J.	27.14
Chattanooga Tenn.	36.42	La. Crosse Wis.	15.62	Portland Me.	35.16	Troy N.Y.	19.42
Chelsea Mass.	11.56	Lawrence Mass.	24.00	Portland Ore.	2.77	Utica N.Y.	20.16
Chicago Ill.	23.30	Lincoln Neb.	9.31	Providence R.I.	34.81	Washington D.C.	38.22
Cincinnati O.	33.04	Little Rock Ark.	14.34	Quincy Ill.	20.29	Waterbury Conn.	21.50
Cleveland "	31.63	Long Beach Cal.	26.96	Reading Pa.	34.91	Wheeling W. Va.	24.46
Columbus "	27.04	Louisville Ky.	31.98	Richmond Va.	40.83	Wilkes-Barre Pa.	6.71
Covington Ky.	14.39	Lowell Mass.	....	Rochester N.Y.	7.09	Williamsport "	9.88
Dallas Tex.	18.73	San Francisco Cal.	26.96	Sacramento Cal.	28.37	Wilmington Del.	36.34
Davenport Ia.	11.23	San Jose Cal.	26.96	Springfield Mass.	34.01	Worcester Mass.	15.37
Dayton O.	27.70	San Jose Cal.	26.96	St. Joseph Mo.	8.12		
Denver Colo.	15.47						
Des Moines Ia.	13.91						
Detroit Mich.	23.54						

## Part III. White Population

1. Death Rate of Aggregate White Population by States with Distinction of Sex.
2. Death Rate of White Population Under Five, Five and Over, and Five and Over Excluding Cities of 25,000 and Over.
3. Death Rate of White Population Five and Over Excluding Cities of 25,000 and Over, by States and Divisions, with Illustrative and Comparative Diagram.
4. Death Rate of Aggregate Population; White Population, White Under Five, and White Five and Over - in Cities of 25,000 and Over.
5. Death Rate of White Population Five and Over in Cities of 25,000 and Over by Divisions with Illustrative and Comparative Diagram.
6. Death Rate of White Population Five and Over, by States, with Distinction of Cities of 25,000 and Over and Remainder of States, with Illustrative and Comparative Diagram.
7. Death Rate of White Population Five and Over, by States, and Divisions, and comparing same with the aggregate of Cities of 25,000 and Over in each State and Division, and showing % of excess of city death rate over Remainder of States and Divisions.

1. Death Rate of Aggregate White Population by States  
with Distinction of Sex.

States	Males	Females	Total	States	Males	Females	Total
Alabama	12.62	12.10	12.36	Montana	8.06	7.15	7.75
Arizona	10.54	8.61	9.76	Nebraska	8.24	8.23	8.23
Arkansas	13.64	12.61	13.15	Nevada	12.79	6.94	10.59
California	16.36	12.79	14.77	New Hamp	19.07	18.48	18.78
Colorado	13.27	13.26	13.27	New Jersey	22.11	19.43	20.76
Connecticut	20.31	18.32	19.31	New Mexico	17.07	17.93	17.47
Delaware	18.09	16.32	17.22	New York	21.86	19.08	20.46
Dist. of Col	22.41	17.28	19.79	No. Carolina	10.72	10.48	10.60
Florida	10.97	9.77	10.40	No. Dakota	9.25	9.58	9.40
Georgia	10.89	9.97	10.43	Ohio	14.01	12.67	13.35
Idaho	7.89	8.80	8.25	Oklahoma	6.01	5.17	5.69
Illinois	14.57	13.03	13.82	Oregon	8.81	7.88	8.41
Indiana	10.99	10.72	10.86	Pennsylvania	14.66	12.96	13.82
Indian Ter.	- - -	No data	- - -	Rhode Island	22.56	20.91	21.71
Iowa	9.29	8.96	9.13	So Carolina	11.49	10.36	10.92
Kansas	8.34	8.09	8.22	So Dakota	7.87	8.67	8.23
Kentucky	12.74	11.64	12.20	Tennessee	12.38	11.98	12.18
Louisiana	17.14	13.77	15.47	Texas	12.84	11.41	12.19
Maine	16.00	14.36	15.18	Utah	10.38	10.06	10.23
Maryland	17.12	15.75	16.43	Vermont	15.71	16.97	16.33
Massachusetts	20.84	19.36	20.08	Virginia	12.61	11.72	12.17
Michigan	12.17	11.54	11.86	Washington	7.25	8.49	7.72
Minnesota	12.06	11.66	11.87	W. Virginia	10.77	10.47	10.62
Mississippi	12.36	10.89	11.63	Wisconsin	11.47	10.51	11.05
Missouri	12.24	11.16	11.72	Wyoming	6.91	6.79	6.87
				United States	14.35	13.23	13.81

2. Death Rate of White Population Under 5; Five and Over and  
Five and Over excluding Cities of 25,000 and Over.

States	Under 5	5 and Over	5 and Over excluding Cities	States	Under 5	5 and Over	5 and Over excluding Cities
Alabama	31.97	9.03	8.41	Montana	19.76	6.38	6.38
Arizona	19.38	8.45	8.45	Nebraska	24.32	5.51	5.41
Arkansas	30.74	9.95	9.95	Nevada	20.88	9.64	9.64
California	40.78	12.09	9.57	New Hamp.	59.76	15.19	15.60
Colorado	42.59	9.69	7.24	New Jersey	79.41	13.76	12.26
Connecticut	61.49	14.99	15.37	New Mexico	48.17	12.16	12.16
Delaware	55.13	12.81	14.47	New York	73.25	14.57	12.56
Dist. of Col.	All in Washington City			N. Carolina	26.69	7.92	7.92
Florida	23.52	8.31	8.31	N. Dakota	25.86	6.22	6.22
Georgia	26.39	7.79	7.15	Ohio	39.40	10.16	9.51
Idaho	22.14	6.08	6.08	Oklahoma	14.63	3.95	3.95
Illinois	44.70	9.47	8.48	Oregon	18.73	7.10	7.03
Indiana	29.31	8.43	8.12	Pennsylvania	41.81	10.17	8.51
Indian Ter.	No data			Rhode Island	84.32	15.35	14.57
Iowa	22.34	7.30	7.27	S. Carolina	27.76	8.23	7.70
Kansas	23.84	5.88	5.94	S. Dakota	20.41	6.09	6.09
Kentucky	31.59	9.17	8.75	Tennessee	29.07	9.48	9.04
Louisiana	39.02	11.57	8.44	Texas	30.33	8.99	8.63
Maine	31.85	13.82	13.72	Utah	21.28	7.25	8.64
Maryland	56.81	11.24	9.07	Vermont	38.76	14.12	14.12
Massachusetts	74.89	14.59	14.90	Virginia	30.39	9.52	9.18
Michigan	35.12	8.59	8.68	Washington	22.09	5.93	6.63
Minnesota	36.03	8.05	8.00	W. Virginia	26.67	8.01	7.84
Mississippi	26.95	9.13	9.13	Wisconsin	27.91	8.56	8.22
Missouri	35.02	8.28	7.51	Wyoming	12.56	5.34	5.34
				United States			9.12

3. Death Rate of the White Population Five years old and Over  
Excluding Cities of 25000 and Over, by States and Divisions

	Death Rate				Death Rate
<i>Northeastern Division.</i>			<i>South-Central Division.</i>		
New Hamp.	15.60		Arkansas	9.95	
Connecticut	15.37		Mississippi	9.13	
Massachusetts	14.90		Tennessee	9.04	
Rhode Island	14.57		Kentucky	8.75	
Delaware	14.47		Louisiana	8.44	
Vermont	14.12		Alabama	8.41	
Maine	13.72		<i>Northwestern Division.</i>		
New York	12.56		Oregon	7.03	
New Jersey	12.26		Washington	6.63	
<i>Southeastern Division.</i>			Montana	6.38	
Virginia	9.18		North Dakota	6.22	
Maryland	9.07		South Dakota	6.09	
Florida	8.31		Idaho	6.08	
North Carolina	7.92		Kansas	5.94	
West Virginia	7.84		Nebraska	5.41	
South Carolina	7.70		Wyoming	5.34	
Georgia	7.15		<i>Southwestern Division.</i>		
<i>North-Central Division.</i>			New Mexico	12.16	
Ohio	9.51		Nevada	9.64	
Michigan	8.61		California	9.57	
Pennsylvania	8.51		Utah	8.64	
Illinois	8.48		Texas	8.63	
Wisconsin	8.32		Arizona	8.45	
Indiana	8.12		Colorado	7.24	
Minnesota	8.00		Oklahoma	3.95	
Missouri	7.51				
Iowa	7.27				

*Synmary—United States.*

N.E. Div.	13.53	
S. C. Div.	8.97	
S. W. Div.	8.80	
N. C. Div.	8.37	
S. E. Div.	8.14	
N. W. Div.	5.98	
U. S.	9.12	

# 4. Death Rate of the Total Population, White Population, White Under 5, and White 5 and Over in Cities of 25000 and Over.

Cities	Total	Total White	White Under 5	White 5 and Over	Cities	Total	Total White	White Under 5	White 5 and Over
Akron O	822	818	3187	537	Elmira N.Y.	1784	1795	5730	1423
Albany N.Y.	2550	2534	8688	1926	Erie Pa.	1103	1109	1443	1067
Allegheny Pa.	2015	2006	7765	1267	Evansville Ind.	1665	1490	6938	910
Altontown "	856	857	3186	600	Ball River Mass.	2484	2487	11115	1440
Altonna .	1912	1911	7821	1011	Port Wayne Ind.	1500	1505	4791	1079
Atlanta Ga.	2484	1828	7573	1176	Galveston Tex.	2498	2437	7169	1845
Auburn N.Y.	2212	2151	7800	1686	Gr Rapids Mich.	1511	1505	5633	1001
Augusta Ga.	2742	1863	6621	1330	Harrisburg Pa.	838	808	2078	659
Baltimore Ind.	2475	2267	9481	1393	Hartford Conn.	2549	2522	8642	1923
Bay City Mich.	830	827	2631	550	Haverhill Mass.	1481	1481	5493	1111
Birmingham N.Y.	1711	1706	3199	1510	Hoboken N.J.	2802	2805	10708	1665
Birmingham Ala.	4294	3515	12999	2588	Holyoke Mass.	2350	2379	9944	1341
Boston Mass.	2479	2235	10090	1462	Houston Tex.	715	565	1743	429
Bridgeport Conn.	2055	2024	7972	1385	Indianapolis Ind.	1884	1778	7422	1220
Brockton Mass.	1564	1569	5955	1089	Jersey City N.J.	2751	2748	11008	1686
Brooklyn N.Y.	2554	2541	9948	1597	Kansas City Kan.	903	900	2827	526
Buffalo "	1990	1983	7264	1174	Kansas City Mo.	1924	1754	8708	1004
Cambridge Mass.	1989	1943	8039	1283	La Crosse Wis.	845	843	2303	625
Camden N.J.	2442	2356	9925	1471	Pancaster Pa.	1087	1076	2623	904
Canton O.	836	840	2879	540	Lawrence Mass.	2904	2906	14096	1760
Charleston S.C.	9123	2475	9234	1761	Lincoln Neb.	453	438	1368	251
Chattanooga Tenn.	2787	2136	8643	1418	Little Rock Ark.	1186	1036	1734	956
Chelsea Mass.	2153	2179	7564	1644	Long J. City N.Y.	2255	2261	8234	1328
Chicago Ill.	2106	2103	8514	1153	Los Angeles Cal.	2000	1953	5738	1555
Cincinnati O.	2236	2193	8681	1415	Louisville Ky.	2181	1961	7493	1350
Cleveland "	2195	2183	9361	1211	Powell Mass.	2731	2742	13507	1652
Columbus "	1576	1436	4734	1091	Synn	1803	1761	6588	1304
Cornington Ky.	1292	1284	4389	880	Manchester N.H.	2096	2099	11131	1207
Dallas Tex.	1844	1836	6043	1338	Memphis Tenn.	2631	2337	6951	1896
Davenport Ia.	1716	1721	4949	1350	Milwaukee Wis.	1928	1926	6917	1130
Dayton O.	1630	1588	5678	1121	Minneapolis Minn.	1481	1476	5951	877
Denver Colo.	2421	2456	10312	1670	Mobile Ala.	3387	2605	7375	2123
Des Moines Ia.	822	808	2802	581					
Detroit Mich.	2042	2036	8420	1118					
Dubuque Ia.	1399	1388	4168	1049					
Duluth Minn.	610	615	2558	373					
Elizabeth N.J.	2081	2067	8113	1290					

# 4. Continued.

Cities	Total	Total White	White Under 5	White 5 and Over	Cities	Total	Total White	White Under 5	White 5 and Over
Nashville Tenn	18.06	14.39	41.98	11.42	Salt Lake Utah	6.51	6.51	20.90	3.68
Newark N.J.	29.04	28.67	116.82	17.63	San Antonio Tex	24.93	25.20	76.46	18.38
New Bedford Mass	23.98	23.63	112.78	14.38	San Francisco Cal	23.61	23.57	88.15	17.68
New Haven Conn.	14.19	14.15	46.38	10.87	Savannah Ga	35.66	29.04	83.93	22.73
New Orleans La	28.40	25.41	87.33	17.93	Scranton Pa.	22.57	22.70	78.68	14.45
New York N.Y.	28.62	28.48	115.07	17.76	Seattle Wash	4.92	4.87	20.54	2.61
Norfolk Va	14.37	12.03	30.83	9.88	Sioux City Ia	5.24	5.29	19.88	3.40
Oakland Cal.	18.79	19.09	72.56	13.71	Somerville Mass	15.18	18.21	63.70	13.36
Omaha Neb	11.70	11.80	38.31	7.41	Springfield ..	20.37	20.26	80.81	11.45
Patterson N.J.	23.73	23.62	98.84	13.95	Springfield O.	19.57	17.96	56.86	13.22
Pawtucket R.I.	24.06	24.13	90.26	17.06	Syracuse N.Y.	19.66	19.74	66.32	14.77
Peoria Ill.	18.04	18.39	67.40	13.06	Tacoma Wash.	9.47	9.47	43.97	6.11
Philadelphia Pa	22.67	22.28	87.34	15.06	Taunton Mass	22.48	22.57	76.38	16.90
Pittsburg ..	21.40	21.56	86.07	12.64	Terre Haute Ind	17.31	16.89	66.96	12.22
Portland Me.	18.80	18.69	56.90	15.51	Toledo O.	20.33	20.27	71.30	13.48
Portland Ore	7.65	8.25	17.88	7.50	Topeka Kans.	7.39	5.58	22.05	3.69
Providence R.I.	22.66	22.28	87.83	16.08	Trenton N.J.	18.10	17.82	70.96	11.27
Quincy Ill	13.87	13.49	43.28	10.03	Troy N.Y.	27.02	27.08	102.84	19.77
Reading Pa	17.65	15.41	51.44	10.96	Utica N.Y.	22.06	22.08	64.58	17.05
Richmond Va	29.62	22.25	75.27	16.31	Washington D.C.	25.85	19.79	79.25	14.20
Rochester N.Y.	17.35	17.39	56.19	12.81	Waterbury Conn.	20.56	20.56	76.10	13.53
Sacramento Cal	16.79	15.74	24.92	14.32	Wheeling W. Va.	16.08	15.83	53.77	11.47
Saginaw Mich.	9.50	9.54	26.46	7.46	Wilkesbarre Pa.	10.05	10.10	29.46	7.33
St. Joseph Mo.	4.99	4.75	18.54	3.18	Williamsport ..	6.96	6.83	20.25	5.26
St. Louis ..	19.13	18.15	67.87	11.82	Wilmington Del	20.95	18.57	75.77	12.33
St. Paul Minn	16.82	16.74	70.99	8.68	Worcester Mass	19.10	19.14	71.90	13.31
Salem Mass	23.67	23.61	154.98	15.90	Yonkers N.Y.	17.89	17.82	65.68	12.03
					Youngstown O.	9.01	9.03	23.61	6.90

57. Death Rate of White Population Five Years Old and Over, in Cities of 25,000 and Over, by Divisions with Diagram.

Death Rate		Death Rate	
Northeastern Division			
19.77	Troy, N. Y.	14.38	New Bedford, Mass.
19.26	Albany, N. Y.	14.23	Elmira, N. Y.
19.23	Hartford, Conn.	13.95	Paterson, N. J.
17.76	New York, N. Y.	13.85	Schaghtico, Conn.
17.63	Newark, N. J.	13.53	Haverbury, Conn.
17.60	Lawrence, Mass.	13.41	Holyoke, Mass.
17.06	Providence, R. I.	13.38	Worcester, Mass.
17.05	Utica, N. Y.	13.36	Somerville, Mass.
16.90	Trenton, N. J.	13.28	Long Island City, N. Y.
16.86	Auburn, N. Y.	13.04	Syracuse, Mass.
16.86	Jersey City, N. J.	12.90	Elizabeth, N. J.
16.65	Hoboken, N. J.	12.83	Cambridge, Mass.
16.52	Lowell, Mass.	12.81	Rochester, N. Y.
16.44	Chelsea, Mass.	12.23	Wilmington, Del.
16.08	Providence, R. I.	12.07	Manchester, N. H.
15.97	Brooklyn, N. Y.	12.03	Yonkers, N. Y.
15.90	Salem, Mass.	11.74	Buffalo, N. Y.
15.51	Portland, Me.	11.45	Springfield, Mass.
15.10	Binghamton, N. Y.	11.27	Trenton, N. J.
14.77	Syracuse, N. Y.	11.11	Greenfield, Mass.
14.71	Camden, N. J.	10.89	Brooklyn, Mass.
14.62	Boston, Mass.	10.87	New Haven, Conn.
14.40	Fall River, Mass.		

Death Rate	5 Continued.	Death Rate
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## North Central Division

13.06	Philadelphia Pa	3.73	Death Rate
14.55	Savannah Pa	3.40	Deaths per 1000
14.15	Cincinnati O	3.18	Deaths per 1000
13.20	Danversport. Ia		
13.42	Toledo O		
13.22	Springfield O		
13.06	Peoria Ill		
12.67	Allegheny Pa		
12.64	Pittsburg Pa		
12.22	Terre Haute Ind		
12.20	Indianapolis Ind		
12.11	Cleveland O		
11.82	St Louis Mo		
11.53	Chicago Ill		
11.30	Milwaukee Wis.		
11.21	Dayton O		
11.18	Detroit Mich.		
10.96	Reading Pa.		
10.91	Columbus O		
10.79	St Nazare Ind		
10.62	Erie Pa		
10.49	Dubuque Ia		
10.11	Albany Pa		
10.04	Hansas City Mo		
10.03	Quincy Ill		
10.01	Gr Rapids Mich.		
9.10	Evansville Ind		
9.04	Lancaster Pa		
8.77	Minneapolis Mn		
8.68	St Paul Minn		
7.46	Saginaw Mich		
7.33	Wichita Kan		
6.40	Honolulu		
6.59	Harrisburg Pa		
6.25	Chicago Ill		
6.20	Albany Pa		
5.81	St. Thomas		
5.50	Bay City Mich		
5.40	Porter Pa		
5.36	Albany		
5.26	St. Paul		

Death Rate

## Southeastern Division

22.73	Savannah Ga.
17.61	Charleston S.C.
16.31	Richmond Va.
14.20	Washington D.C.
13.93	Baltimore Md.
13.30	Augusta Ga.
11.76	Atlanta Ga.
11.47	Wheeling W.Va.
9.85	Norfolk Va.

## South Central Division

23.88	Birmingham Ala.
21.23	Mobile Ala.
18.96	Memphis Tenn.
17.93	New Orleans La.
14.18	Chattanooga Tenn.
13.50	Columbus Ky.
11.42	Nashville Tenn.
9.56	Little Rock Ark.
8.80	Corvinton Ky.

## Northwestern Division

7.50	Portland Ore.
7.41	Omaha Neb.
6.11	Lacon Wash.
3.64	Spokane Wash.
2.61	Seattle Wash.
2.51	Spokane Wash.

## Southwestern Division

18.45	Galveston Tex.
18.38	San Antonio Tex.
17.68	San Francisco Cal.
16.70	Denver Colo.
15.55	Los Angeles Cal.
14.32	Sacramento Cal.
13.71	Oakland Cal.
13.38	Dallas Tex.
4.29	Houston Tex.
3.68	San Antonio Tex.

Death Rate of White Population Five Years Old and Over with Distinction of Cities of 25,000 and Over and  
 6 Remainder of Population, with Diagram  
 Note - Only those States which contain cities of 25,000 or Over are included in this Table.

### Alabama

25.88	Birmingham
21.23	Mobile
8.41	Rem of State

### Arkansas

9.56	Little Rock
9.95	Rem of State

### California

17.68	San Francisco
15.55	Los Angeles
14.32	Sacramento
13.71	Oakland
9.57	Rem of State

### Colorado

16.70	Denver
7.24	Rem of State

### Connecticut

19.23	Hartford
13.85	Bridgeport
13.53	Waterbury
10.87	New Haven
15.37	Rem. of State

### Delaware

12.23	Wilmington
14.47	Rem of State

### Georgia

22.73	Savannah
13.30	Augusta
11.76	Atlanta
7.15	Rem of State

### Illinois

13.06	Peoria
11.53	Chicago
10.03	Quincy
8.48	Rem of State

### Indiana

12.22	Terre Haute
12.20	Indianapolis
10.79	Fort Wayne
9.10	Evansville
8.12	Rem of State

### Iowa

13.50	Davenport
10.49	Dubuque
5.81	Des Moines
3.40	Sioux City
7.27	Rem of State

### Kansas

5.26	H. C. Mann
3.69	Topeka
5.94	Rem of State

### Kentucky

13.30	Louisville
8.80	Covington
8.75	Rem of State

### Louisiana

12.93	New Orleans
8.44	Rem. of State

### Maine

15.51	Portland
13.72	Rem of State

### Maryland

13.95	Baltimore and
9.07	Rem of State

## 6. Continued

### Massachusetts

17.60	Laurvnce
16.90	Taunton
16.52	Lowell
16.44	Chelsea
15.90	Salem
14.62	Boston
14.40	Fall River
14.38	New Bedford
13.41	Holyoke
13.36	Somerville
13.31	Worcester
13.04	Lynn
12.83	Cambridge
11.45	Springfield
11.11	Haverhill
10.89	Brockton
14.50	Rem. of State

### Michigan

11.18	Detroit
10.01	Lsr Rapids
7.46	Saginaw
5.50	Bay City
8.68	Rem. of State

### Minnesota

8.77	Minneapolis
8.68	St Paul
3.73	Duluth
8.00	Rem. of State

### Missouri

11.82	St Louis
10.04	Kansas City
3.18	St Joe
7.51	Rem. of State

### Nebraska

7.41	Omaha
2.51	Lepp Colm
5.41	Rem. of State

### New Hampshire

12.07	Manchester
15.60	Rem. of State

### New Jersey

17.63	Newark
16.86	Jersey City
16.65	Hoboken
14.71	Camden
13.45	Paterson
12.90	Elizabeth
11.27	Trenton
12.26	Rem. of State

### New York

19.77	Sroy
19.26	Albany
17.76	New York
17.05	Utica
16.86	Auburn
15.97	Brooklyn
15.10	Binghamton
14.77	Syracuse
14.23	Elmira
13.28	Long I City
12.81	Rochester
12.03	Yonkers
11.74	Buffalo
12.56	Rem. of State

### Ohio

14.15	Cincinnati
13.41	Toledo
13.22	Springfield
12.11	Cleveland
11.21	Dayton
10.91	Columbus
6.90	Youngs town
5.40	Canton
5.36	Akron
9.41	Rem. of State

### Oregon

7.50	Portland
7.03	Rem. of State

## 6 Concluded

### Pennsylvania

15.06	Philadelphia
14.41	Scranton
12.67	Allegheny
12.64	Pittsburg
10.96	Reading
10.67	Erie
10.11	Altoona
9.04	Scranton
7.33	Harrisburg
6.59	Harrisburg
6.00	Allen- town
5.26	Williams- port
8.51	Rem of State

### Rhode Island

17.06	Pawtucket
16.08	Providence
14.57	Rem of State

### South Carolina

17.61	Charleston
7.70	Rem of State

### Tennessee

18.96	Memphis
14.18	Chattanooga
11.42	Nashville
9.04	Rem. of State

### Texas

18.45	Galveston
18.38	San Antonio
13.38	Dallas
4.39	Houston
8.63	Rem of State

### Utah

3.68	Salt Lake
8.63	Rem of State

### Virginia

16.31	Richmond
9.88	Norfolk
9.18	Rem of State

### Washington

6.11	Spokane
2.61	Spokane
6.63	Rem of State

### West Virginia

11.47	Wheeling
7.84	Rem of State

### Wisconsin

11.30	Milwaukee
6.25	La Crosse
8.22	Rem. of State

7. Death Rate of White Population Five Years old and Over by States and Divisions; - Comparing the aggregate of Cities of 25,000 and Over in each State and Division with death rate of remainder of Population.

	Death Rate Excluding Cities of 25,000 and Over	Cities of 25,000 and Over			Death Rate Including Cities of 25,000 and Over	Cities of 25,000 and Over	
		Death Rate Aggregate	% of Excess over Rem. of Pop.			Death Rate Aggregate	% of Excess over Rem. of Pop.
<b>Northeastern Division</b>				<b>South-Central Division</b>			
Vermont	14.12	---	---	Mississippi	9.13	---	---
Connecticut	15.37	14.02	---	Arkansas	9.95	9.56	---
Delaware	14.47	12.23	---	Kentucky	8.75	12.52	43.09
Massachusetts	14.90	14.29	---	Tennessee	9.04	14.62	61.12
New Hampshire	15.60	12.07	---	Louisiana	8.44	17.93	112.44
Rhode Island	14.67	16.25	11.53	Alabama	8.41	23.37	177.88
Maine	13.72	14.51	13.05	Division	8.97	15.50	72.80
New Jersey	12.26	14.24	28.88	<b>Northwestern Division</b>			
New York	12.56	16.43	30.81	Montana	6.38	---	---
Division	13.53	15.71	16.11	North Dakota	6.22	---	---
<b>Southeastern Division</b>				South Dakota	6.09	---	---
Florida	8.31	---	---	Idaho	6.08	---	---
No. Carolina	7.92	---	---	Wyoming	5.34	---	---
W. Virginia	7.84	11.47	46.30	Kansas	5.94	4.51	---
Maryland	9.07	13.93	53.58	Washington	6.63	4.02	---
Virginia	9.18	14.54	58.38	Oregon	2.03	7.51	68.3
Georgia	7.15	15.07	110.77	Nebraska	5.41	6.10	12.75
So. Carolina	7.70	17.61	128.70	Division	5.98	5.47	---
Division	8.74	14.16	73.96	<b>Southwestern Division</b>			
<b>North-Central Division</b>				Oklahoma	3.95	---	---
Minnesota	8.00	8.22	2.51	Arizona	8.45	---	---
Iowa	7.27	7.60	4.54	Nevada	9.64	---	---
Michigan	8.68	9.99	15.09	Colorado	7.24	16.70	130.66
Ohio	9.51	12.16	27.87	New Mexico	12.16	---	---
Wisconsin	8.22	10.74	30.66	Utah	2.64	3.68	---
Illinois	8.48	11.55	36.20	Texas	8.63	14.54	68.48
Indiana	8.12	11.26	38.67	California	9.57	16.74	74.92
Missouri	7.51	10.74	43.01	Division	8.80	15.30	73.86
Pennsylvania	8.51	13.50	58.64	<b>Summary United States</b>			
Division	8.37	11.73	40.14	N.E. Div.	13.53	15.71	16.11
				S.E. Div.	8.14	14.16	73.96
				N.C. Div.	8.37	11.73	40.14
				S.C. Div.	8.97	15.50	72.80
				N.W. Div.	5.98	5.47	---
				S.W. Div.	8.80	15.30	73.86
				Aggregate	9.12	13.64	49.67

## Note by the Compiler

The Death Rate of the White Population Five years old and Over with the Cities of 25,000 and Over excluded is expressed by a much lower ratio than that of the aggregate population.

The death rate of the colored population is avoided, the high death rate of children under five is omitted, and the effect of the congestion of population in the cities is eliminated. But while there is a considerable reduction of ratios for the different States and Divisions their relation to each other is not materially changed.

The extremes are relatively as far apart as ever. The death rate of the Northeastern Division is still more than double that of the Northwestern Division.

As stated in the paragraph following Part I, the country is too big, the variation of conditions too great and the extremes both geographically and mathematically are too far apart to ever be brought under a common average without a total sacrifice of accuracy.

A mortality table based <sup>upon</sup> the whole population or one based upon selected towns from all parts of the country must necessarily fail to correctly represent the death rate of the United States which is not the same in different localities nor under widely varying conditions.

The death rate of the cities too, in contra-distinction from that of the smaller towns and country districts is a factor too important to be overlooked. Congestion of population, bad sanitary conditions, irregular or unnatural habits and the general strain of city life are elements that must inevitably enter into the problem of life contingencies.

Part IV. Death Rate of Males in 160 Specified  
Occupations by Groups of Ages Arranged  
in 88 Sub-Groups and Eight General  
Divisions.

1. Manufacturing and Mechanical Pursuits - 68 Occupations  
- 41 Sub-Groups.
2. Mercantile and Trading - 7 Occupations counting Merchants and Dealers as one - 5 Sub-Groups.
3. Transportation Mining Quarrying - 9 Occupations  
- 5 Sub-Groups.
4. Personal Service and Entertainment - 13 Occupations  
- 10 Sub-Groups.
5. Police Military Naval and Other Water Service - 12 Occupations - 6 Sub-Groups.
6. Official and Clerical - 16 Occupations - 6 Sub-Groups.
7. Professional and Semi-Professional - 19 Occupations -  
10 Sub-Groups.
8. Agricultural and Other Outdoor Pursuits - 16 Occupations - 5 Sub-Groups.
9. Comparison of Death Rate in certain Specified Occupations in England and the United States - by Groups of Ages.
10. Death Rate of Females in certain Specified Occupations by Groups of Ages.

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The data for the death rate in various occupations is drawn from the Northeastern Division of States excepting Maine and Delaware and including the District of Columbia.

# 1. Manufacturing and Mechanical Pursuits.

Occupations	Age Groups	Persons Occupied	Deaths	Death Rate
1 Clock and Watchmakers, Repairers and Opticians	15-24	2,450	43	17.55
	25-44	4,056	128	31.56
	45-64	1,665	81	48.65
	All Ages inc. 65 and Over			35.64
2 Wheelwrights	Cities of 25,000 and Over			42.68
	Remainder of District			18.72
	15-24	482	7	14.52
	25-44	1,858	14	7.53
3 Coopers	45-64	1,677	28	16.70
	All Ages inc. 65 and Over			22.17
	Cities of 25,000 and Over			25.54
	Remainder of District			18.96
4 Hat and Cap Makers	15-24	1,982	10	5.05
	25-44	5,230	58	11.09
	45-64	3,367	86	25.54
	All Ages inc. 65 and Over			21.48
5 Gunsmiths, Locksmiths and Bill Wingers	Cities of 25,000 and Over			23.45
	Remainder of District			16.45
	15-24	4,143	26	6.28
	25-44	7,059	136	19.27
6 Tailors and Dressmakers	45-64	2,527	77	30.47
	All Ages inc. 65 and Over			19.48
	Cities of 25,000 and Over			22.81
	Remainder of District			7.87
7 Butchers	15-24	1,255	7	5.58
	25-44	1,739	25	14.38
	45-64	788	22	27.92
	All Ages inc. 65 and Over			17.57
8 Bakers	Cities of 25,000 and Over			21.53
	Remainder of District			8.78
	15-24	1,255	7	5.58
	25-44	1,739	25	14.38
9 Millers	45-64	788	22	27.92
	All Ages inc. 65 and Over			17.57
	Cities of 25,000 and Over			21.53
	Remainder of District			8.78

# 1 Continued

Occupations	Age Groups	Persons Occupied	Deaths	Death Rate	The short perpendicular detached lines below in the diagram indicate the general or normal death rate of the whole population for the age groups in which they appear										
6 Millers (Flour vgrst)	15-24	863	6	6.95	5	10	15	20	25	30	35	40	45	50	
	25-44	3306	16	4.84	10	15	20	25	30	35	40	45	50		
	45-64	2236	42	18.78	10	15	20	25	30	35	40	45	50		
	All ages inc 65 and Over			17.34	10	15	20	25	30	35	40	45	50		
7 Plasterers and Whitewashers	Cities of 25,000 and Over			20.63	10	15	20	25	30	35	40	45	50		
	Remainder of District			15.93	10	15	20	25	30	35	40	45	50		
	15-24	1433	14	9.77	10	15	20	25	30	35	40	45	50		
	25-44	3711	49	13.20	10	15	20	25	30	35	40	45	50		
8 Tailors	45-64	1682	43	25.56	10	15	20	25	30	35	40	45	50		
	All ages inc 65 and Over			17.34	10	15	20	25	30	35	40	45	50		
	Cities of 25,000 and Over			18.06	10	15	20	25	30	35	40	45	50		
	Remainder of District			10.40	10	15	20	25	30	35	40	45	50		
9 Cigar-makers and Tobacco Workers	15-24	12688	53	4.18	10	15	20	25	30	35	40	45	50		
	25-44	24730	212	8.57	10	15	20	25	30	35	40	45	50		
	45-64	11959	336	28.17	10	15	20	25	30	35	40	45	50		
	All ages inc 65 and Over			16.44	10	15	20	25	30	35	40	45	50		
10 Masons (brick and stone)	Cities of 25,000 and Over			15.94	10	15	20	25	30	35	40	45	50		
	Remainder of District			22.84	10	15	20	25	30	35	40	45	50		
	15-24	6563	48	7.31	10	15	20	25	30	35	40	45	50		
	25-44	12666	175	13.82	10	15	20	25	30	35	40	45	50		
10 Masons (brick and stone)	45-64	4164	135	32.42	10	15	20	25	30	35	40	45	50		
	All ages inc 65 and Over			16.27	10	15	20	25	30	35	40	45	50		
	Cities of 25,000 and Over			16.39	10	15	20	25	30	35	40	45	50		
	Remainder of District			15.11	10	15	20	25	30	35	40	45	50		
10 Masons (brick and stone)	15-24	8775	44	5.01	10	15	20	25	30	35	40	45	50		
	25-44	23925	217	9.07	10	15	20	25	30	35	40	45	50		
	45-64	14050	269	19.15	10	15	20	25	30	35	40	45	50		
	All ages inc 65 and Over			15.58	10	15	20	25	30	35	40	45	50		
10 Masons (brick and stone)	Cities of 25,000 and Over			16.72	10	15	20	25	30	35	40	45	50		
	Remainder of District			13.03	10	15	20	25	30	35	40	45	50		

Continued

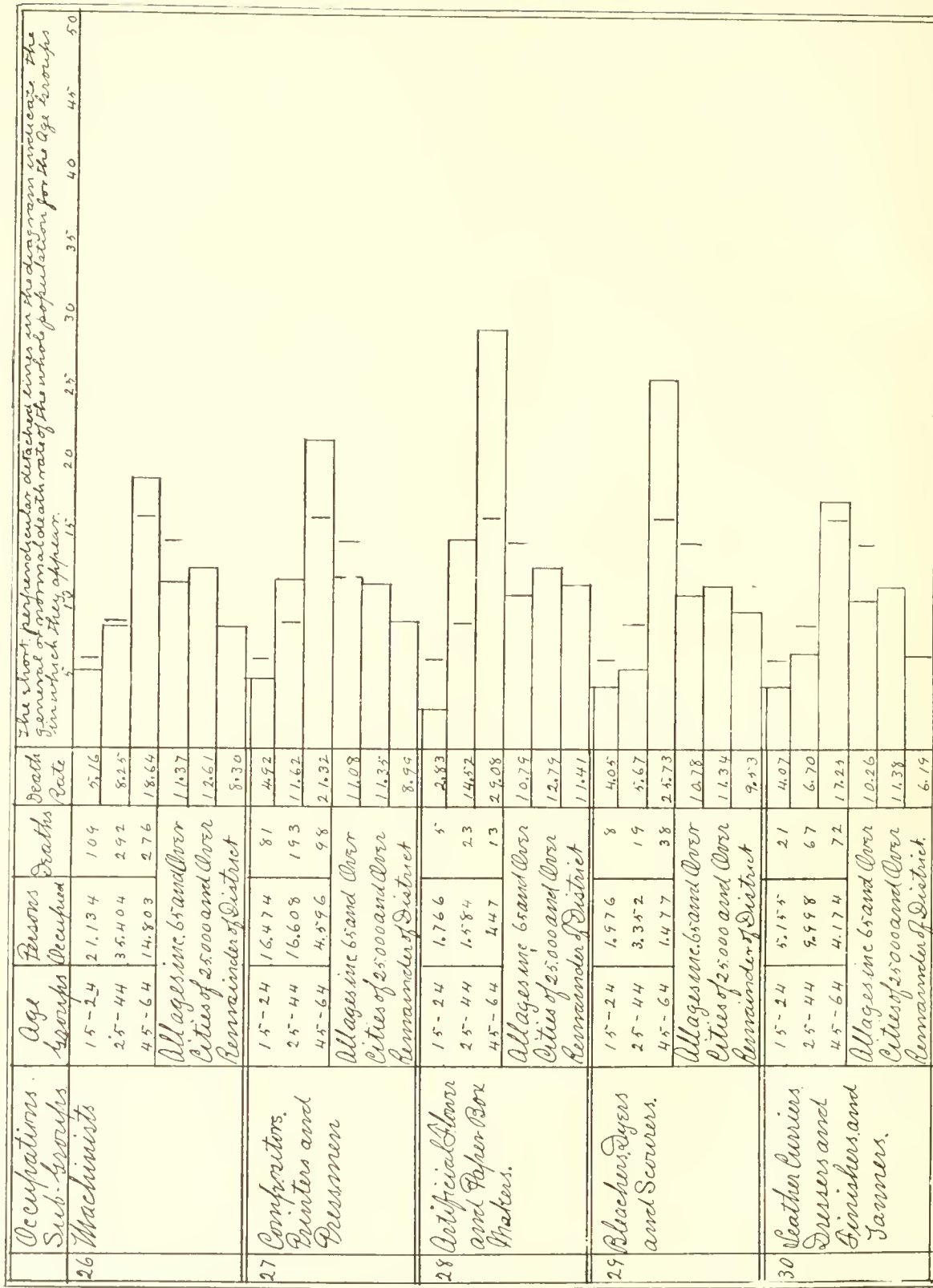
Occupations	Age Groups	Persons Occupied	Deaths	Death Rate	The short perpendicular detached lines in the diagram indicate the general or normal death rate of the whole population for the age groups in which they appear.
11 Blacksmiths	15-24	8,348	38	4.55	
	25-44	22,617	204	9.02	
	45-64	12,934	240	18.56	
	All ages inc 65 and Over			15.58	
	Cities of 25,000 and Over			16.81	
	Remainder of District			13.87	
12 Cabinet Makers and Upholsterers	15-24	4,061	18	4.43	
	25-44	10,097	94	9.31	
	45-64	5,160	91.3	21.90	
	All ages inc 65 and Over			15.30	
	Cities of 25,000 and Over			15.44	
	Remainder of District			11.65	
13 Boot and Shoe Makers	15-24	24,052	121	5.03	
	25-44	41,179	356	8.65	
	45-64	23,197	506	21.26	
	All ages inc 65 and Over			15.27	
	Cities of 25,000 and Over			15.26	
	Remainder of District			15.29	
14 Butchers	15-24	7,986	41	5.13	
	25-44	15,972	189	11.83	
	45-64	5,487	144	26.24	
	All ages inc 65 and Over			14.92	
	Cities of 25,000 and Over			16.63	
	Remainder of District			9.83	
15 Brewers Distillers and Rectifiers	15-24	8,79	9	10.24	
	25-44	43,61	34	8.03	
	45-64	1,340	42	31.34	
	All ages inc 65 and Over			14.70	
	Cities of 25,000 and Over			15.23	
	Remainder of District			10.09	



1. Continued

Occupations Sub-Groups	Age Groups	Persons Required	Deaths	Death Rate	The short perpendiculars detected in the diagram indicate the normal death rate of the whole population for the ages in which they appear
21 Harness Saddle Trunk and Bag Makers and Leather Case Workers	15-24 25-44 45-64	2707 5309 3228	15 51 60	5.54 9.61 18.59	
	All ages are 65 and over Cities of 25,000 and over Remainder of District			13.31 15.00 9.22	
22 Painters, Druggists and Varnishers	15-24 25-44 45-64	18016 41,588 16,769	74 440 370	4.11 10.56 2.06	
	All ages are 65 and over Cities of 25,000 and over Remainder of District			13.04 14.01 10.39	
23 Electrotypers and Stereotypers (see note 3 at end of book)	15-24 25-44 45-64	245 404 107	5 5 ---	20.41 12.38 ---	
	All ages are 65 and over Cities of 25,000 and over Remainder of District			12.99 --- ---	
24 Tinsmiths and Tinware Makers	15-24 25-44 45-64	5306 8107 2992	29 92 65	5.47 11.35 2.172	
	All ages are 65 and over Cities of 25,000 and over Remainder of District			12.16 13.04 9.82	
25 Photographers	15-24 25-44 45-64	1160 2300 922	9 16 22	7.76 6.96 2.386	
	All ages are 65 and over Cities of 25,000 and over Remainder of District			11.46 9.90 16.36	

1. Continued.



1. Continued.

Occupations	Age Groups	Persons Occupied	Deaths	Death Rate	The short-perpendicular detached lines in the diagram indicate the general or normal death-rate of the whole population for the age groups in which they appear.									
					5	10	15	20	25	30	35	40	45	50
31 Potters	15-24	1,326	8	6.03										
	25-44	2,061	18	8.73										
	45-64	588	10	17.01										
	All ages inc 65 and over			9.83										
	Cities of 25,000 and over			10.45										
32 Iron and Steel Workers.	Remainder of District			6.35										
	15-24	10,702	45	4.20										
	25-44	16,402	112	6.83										
	45-64	6,584	125	18.90										
	All ages inc 65 and over			9.80										
33 Plumbers, Gas and Steam Fitters.	Cities of 25,000 and over			10.55										
	Remainder of District			7.84										
	15-24	13,987	64	4.58										
	25-44	11,540	133	11.53										
	45-64	2,695	65	24.12										
34 Glass Blowers and Glass Workers.	All ages inc 65 and over			9.74										
	Cities of 25,000 and over			10.18										
	Remainder of District			5.83										
	15-24	3,604	19	5.27										
	25-44	3,863	40	10.35										
35 Paper Hangers	45-64	1,306	23	17.61										
	All ages inc 65 and over			9.47										
	Cities of 25,000 and over			9.60										
	Remainder of District			9.14										
	15-24	986	3	3.04										
	25-44	1,909	18	9.43										
	45-64	723	8	11.07										
	All ages inc 65 and over			9.36										
	Cities of 25,000 and over			9.47										
	Remainder of District			8.57										

! Concluded

Occupations	Age Groups	Persons Occupied	Deaths	Death Rate
36 Brass Foundries and Copper-smiths.	15-24 25-44 45-64	4,114 5,749 1,794	27 45 28	6.56 7.83 15.61
	All Ages inc. 65 and Over Cities of 25,000 and Over Remainder of District			9.25 10.62 4.88
37 Gas Works Employees	15-24 25-44 45-64	323 1,155 550	2 4 9	6.19 3.46 16.36
	All Ages inc. 65 and Over Cities of 25,000 and Over Remainder of District			8.59 7.73 11.35
38 Mill and Factory Oper- ators (Textile)	15-24 25-44 45-64	5,608 49,473 17,581	297 361 243	5.30 7.30 13.82
	All Ages inc. 65 and Over Cities of 25,000 and Over Remainder of District			8.11 9.46 5.95
39 Paper Mill Operators.	15-24 25-44 45-64	3,838 5,322 1,721	19 23 21	4.95 4.32 12.29
	All Ages inc. 65 and Over Cities of 25,000 and Over Remainder of District			7.05 8.92 5.17
40 Rubber Factory Operators.	15-24 25-44 45-64	3,164 4,172 1,265	11 24 15	3.48 5.75 11.82
	All Ages inc. 65 and Over Cities of 25,000 and Over Remainder of District			6.32 6.46 6.07

## 2. Mercantile and Trading.

Occupations	Age Groups	Persons Occupied	Deaths	Death Rate	The short perpendicular, detached lines in this diagram indicate the interval for minimal death rate of the whole population for the Age Groups in which they appear					
1. Apothecaries, Pharmacists and dealers in Chemicals and Drugs.	15-24	1,868	20	10.71	10	15	20	25	30	35
	25-44	5,494	63	11.47	10	15	20	25	30	35
	45-64	2,015	56	27.79	10	15	20	25	30	35
	All ages inc. 65 and Over.			16.19	10	15	20	25	30	35
	Cities of 25,000 and Over.			17.65	10	15	20	25	30	35
2. Wine and Sugar Dealers.	Remainder of District.			12.47	10	15	20	25	30	35
	15-24	417	2	4.80	10	15	20	25	30	35
	25-44	4,740	65	13.71	10	15	20	25	30	35
	45-64	2,004	51	25.45	10	15	20	25	30	35
	All ages inc. 65 and Over.			17.26	10	15	20	25	30	35
3. Merchants and Dealers.	Cities of 25,000 and Over.			17.93	10	15	20	25	30	35
	Remainder of District.			16.46	10	15	20	25	30	35
	15-24	17,779	81	4.56	10	15	20	25	30	35
	25-44	88,397	636	7.19	10	15	20	25	30	35
	45-64	53,203	980	18.42	10	15	20	25	30	35
4. Bucketers and Peddlers.	All ages inc. 65 and Over.			14.66	10	15	20	25	30	35
	Cities of 25,000 and Over.			15.57	10	15	20	25	30	35
	Remainder of District.			12.25	10	15	20	25	30	35
	15-24	5,298	24	4.53	10	15	20	25	30	35
	25-44	10,841	115	10.61	10	15	20	25	30	35
5. Commercial Travelers and Salesmen.	45-64	5,013	115	22.94	10	15	20	25	30	35
	All ages inc. 65 and Over.			14.11	10	15	20	25	30	35
	Cities of 25,000 and Over.			15.52	10	15	20	25	30	35
	Remainder of District.			8.23	10	15	20	25	30	35
	15-24	28,075	61	2.17	10	15	20	25	30	35
	25-44	39,982	231	5.78	10	15	20	25	30	35
	45-64	11,414	148	12.97	10	15	20	25	30	35
	All ages inc. 65 and Over.			5.80	10	15	20	25	30	35
	Cities of 25,000 and Over.			6.08	10	15	20	25	30	35
	Remainder of District.			4.59	10	15	20	25	30	35

### 3. Transportation, Mining Quarries, etc.

Occupations Sub-Groups	Age Groups	Persons Occupied	Deaths	Death Rate	The short perpendicular detached lines in the diagram indicate the general or normal death rate of the whole population for the age groups in which they appear.									
1 Miners. (See note 4 at end of book)	15-24	1547	7	452	5	10	15	20	25	30	35	40	45	50
	25-44	2881	29	1007	5	10	15	20	25	30	35	40	45	50
	45-64	1113	24	2156	5	10	15	20	25	30	35	40	45	50
	All ages inc 65 and over.			1308	5	10	15	20	25	30	35	40	45	50
	Cities of 25,000 and over. Remainder of District.			4528	5	10	15	20	25	30	35	40	45	50
2 Draymen. Hackmen, Teamsters, Drivers, etc.	15-24	30782	199	647	5	10	15	20	25	30	35	40	45	50
	25-44	59325	657	1107	5	10	15	20	25	30	35	40	45	50
	45-64	19238	373	1939	5	10	15	20	25	30	35	40	45	50
	All ages inc 65 and over.			1212	5	10	15	20	25	30	35	40	45	50
	Cities of 25,000 and over. Remainder of District.			1402	5	10	15	20	25	30	35	40	45	50
3 Curry Stable Keepers and Hostlers	15-24	6293	39	620	5	10	15	20	25	30	35	40	45	50
	25-44	11844	109	920	5	10	15	20	25	30	35	40	45	50
	45-64	4735	99	2091	5	10	15	20	25	30	35	40	45	50
	All ages inc 65 and over.			1200	5	10	15	20	25	30	35	40	45	50
	Cities of 25,000 and over. Remainder of District.			1414	5	10	15	20	25	30	35	40	45	50
4 Steam R.R. Employees (See note 5 at end of book)	15-24	18313	165	901	5	10	15	20	25	30	35	40	45	50
	25-44	49055	360	734	5	10	15	20	25	30	35	40	45	50
	45-64	14887	167	1122	5	10	15	20	25	30	35	40	45	50
	All ages inc 65 and over.			855	5	10	15	20	25	30	35	40	45	50
	Cities of 25,000 and over. Remainder of District.			1044	5	10	15	20	25	30	35	40	45	50
5 Quarrymen	15-24	2832	9	318	5	10	15	20	25	30	35	40	45	50
	25-44	6365	20	314	5	10	15	20	25	30	35	40	45	50
	45-64	2172	24	1105	5	10	15	20	25	30	35	40	45	50
	All ages inc 65 and over.			525	5	10	15	20	25	30	35	40	45	50
	Cities of 25,000 and over. Remainder of District.			1332	5	10	15	20	25	30	35	40	45	50

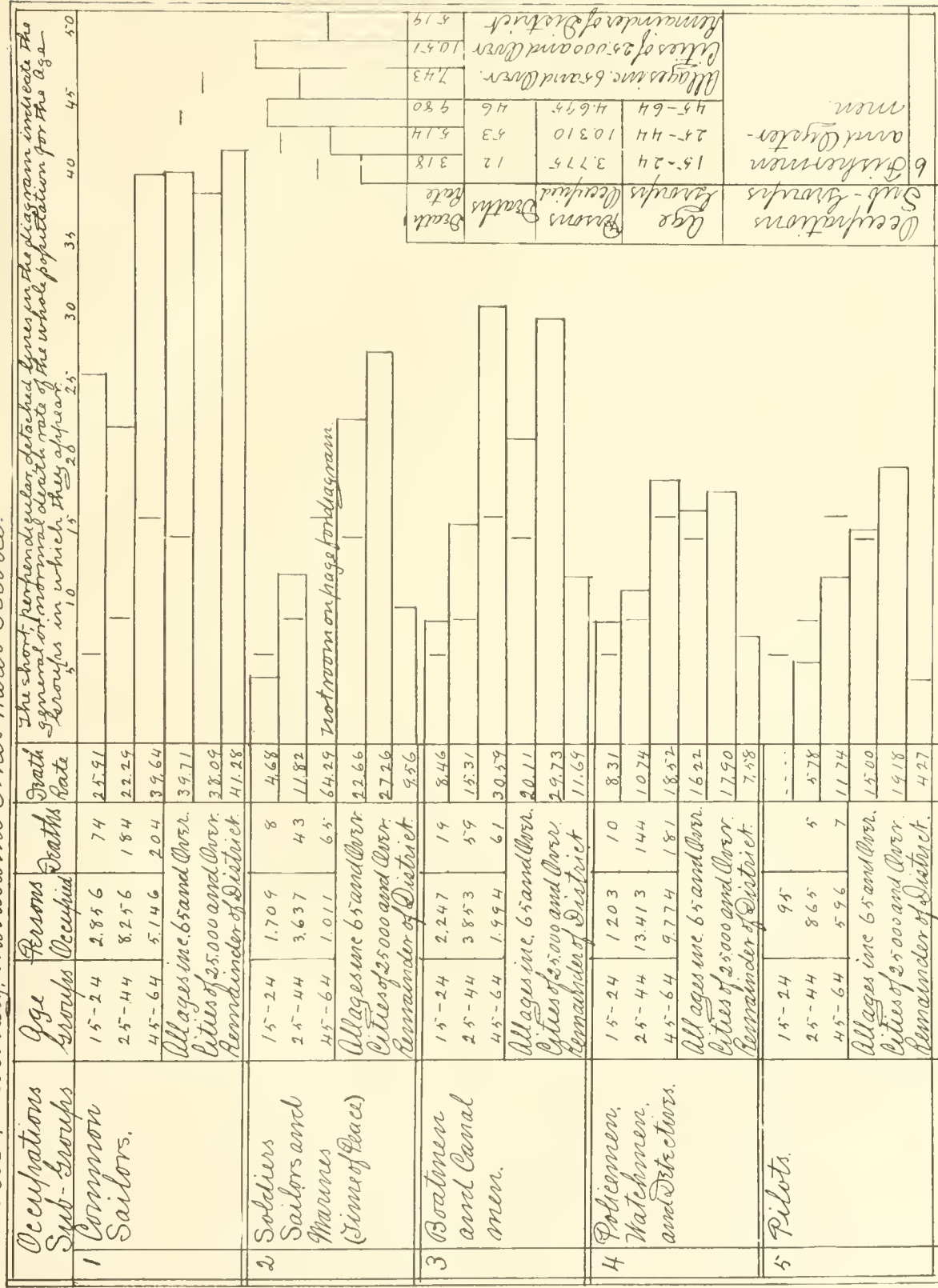
# 4. Personal Service and Entertainment

Occupations	Age Groups	Persons Occupied	Deaths	Death Rate	The short, perpendicular detached lines in the diagram indicate the general or normal death rate of the whole population for the age-groups in which they appear. 25 30 35 40 45 50					
1 Day Laborers. (not including farm laborers)	15-24	89,141	1,048	11.76						
	25-44	177,453	3,153	17.77						
	45-64	92,963	3,148	33.86						
	All ages inc. 65 and Over			25.26						
	Cities of 25,000 and Over.			29.02						
2 Undertakers.	Remainder of District.			18.53						
	15-24	500	3	6.00						
	25-44	1,854	17	9.17						
	45-64	1,089	26	23.88						
	All ages inc. 65 and Over.			24.99						
3 Janitors and Sextons.	Cities of 25,000 and Over.			19.00						
	Remainder of District.			22.74						
	15-24	772	3	3.89						
	25-44	3,811	45	11.81						
	45-64	3,358	69	20.55						
4 Hotel and Boarding House Keepers.	All ages inc. 65 and Over.			17.15						
	Cities of 25,000 and Over.			16.97						
	Remainder of District.			18.37						
	15-24	404	1	2.48						
	25-44	6,550	60	9.16						
5 Saloon, Restaurant, Keepers, Bartenders etc. (see note 6 at end of book)	45-64	5,751	89	15.48						
	All ages inc. 65 and Over.			14.93						
	Cities of 25,000 and Over.			18.73						
	Remainder of District.			11.86						
	15-24	8,475	75	8.85						
	25-44	24,105	332	13.77						
	45-64	7,652	155	20.26						
	All ages inc. 65 and Over.			14.40						
	Cities of 25,000 and Over.			15.35						
	Remainder of District.			9.25						

4. Continued

Occupations Sub-Groups	Age Groups	Persons Occupied	Deaths	Death Rate	The short, perpendicular detached lines in the diagram indicate the general or normal death rate of the whole population for the age groups in which they appear.
6 Professional Nurses.	15-24	605	4	6.61	5
	25-44	1370	14	10.22	10
	45-64	462	10	21.65	15
	All ages inc. 65 and Over Cities of 25,000 and Over Remainder of District			13.96	20
				14.61	25
7 Servants.	15-24	19823	110	5.55	30
	25-44	31953	404	12.64	35
	45-64	8133	220	27.05	40
	All ages inc. 65 and Over Cities of 25,000 and Over Remainder of District			12.92	45
				15.06	50
8 Barbers and Hairdressers.	15-24	6773	50	7.38	5
	25-44	13051	154	11.82	10
	45-64	2652	66	24.89	15
	All ages inc. 65 and Over Cities of 25,000 and Over Remainder of District			12.54	20
				13.59	25
9 Sauscenders.	15-24	1593	10	5.02	30
	25-44	4864	54	11.10	35
	45-64	748	22	29.41	40
	All ages inc. 65 and Over Cities of 25,000 and Over Remainder of District			11.22	45
				11.59	50
10 Messenger Boys	15-24	12910	28	2.17	5
	25-44	816	9	11.03	10
	45-64	527	6	11.39	15
	All ages inc. 65 and Over Cities of 25,000 and Over Remainder of District			2.44	20
				2.35	25

# 5 Police, Military, Naval and Other Water Service.



6 Officer and Clerical

Occupations	Age Groups	Resons	Deaths	Death Rate
1 Newspaper Carrier and Newsboys	15-24 25-44 45-64	804 127 57	7 3 4	8.71 23.62 70.18
2 Accountants, Bookkeepers, Clerks and Copyists	15-24 25-44 45-64	98401 85274 22898	649 1041 495	6.59 12.21 21.62
3 Collectors and Agents	15-24 25-44 45-64	5624 22050 13931	16 138 196	2.84 6.26 14.07
4 Telegraph and Telephone Operators	15-24 25-44 45-64	4266 3806 393	32 43 3	7.50 11.30 7.63
5 Stenographers and Scribes	15-24 25-44 45-64	1969 1425 188	5 11 2	2.54 7.72 10.64

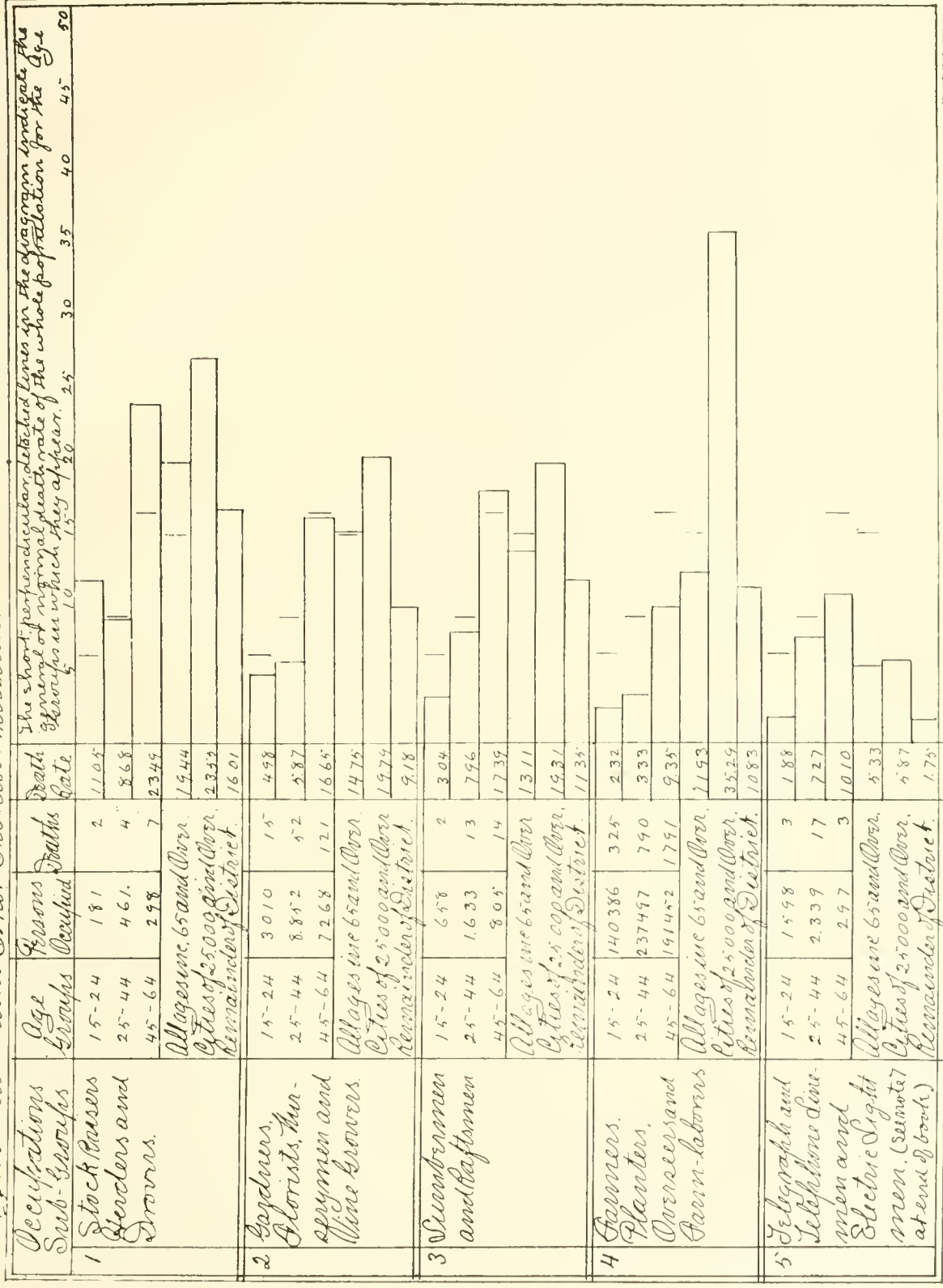
7 Professional and Semi-Professional

Occupations	Age Groups	Persons Requiring	Death Rate	Percentage of Normal Population of the whole population in the age group in which they appear
1. <i>Journalists, Authors, Editors and Scientific Persons.</i>	15-24 25-44 45-64	1196 4733 2292	18 68 61	15.05 14.37 26.61
	All ages inc 65 and Over. Cities of 25000 and Over Remainder of District			21.70 16.29 26.25
2. <i>Physicians and Surgeons</i>	15-24 25-44 45-64	1067 5768 5768	... 102 122	... 9.52 21.15
	All ages inc 65 and Over. Cities of 25000 and Over Remainder of District			21.53 20.96 22.59
3. <i>Clergymen.</i>	15-24 25-44 45-64	335 7478 5707	2 44 84	5.97 5.88 14.72
	All ages inc 65 and Over. Cities of 25000 and Over Remainder of District			18.24 19.89 16.78
4. <i>Sawyers.</i>	15-24 25-44 45-64	1204 10583 5930	15 90 129	8.27 8.50 21.61
	All ages inc 65 and Over. Cities of 25000 and Over Remainder of District			17.71 18.51 14.66
5. <i>Musicians and Teachers of Music.</i>	15-24 25-44 45-64	1438 5283 2183	17 37 56	8.68 10.59 25.63
	All ages inc 65 and Over. Cities of 25000 and Over Remainder of District			15.56 16.61 11.86

7. Continued

Occupations Sub-Groups	Age Groups	Persons Occupied	Deaths	Death Rate	The short perpendiculars detached bars in the diagram indicate the general or original death rate of the whole population for the age groups in which they appear. 25 30 35 40 45 50					
6 Actors	15-24	543	1	1.84						
	25-44	1,588	27	17.00						
	45-64	301	8	26.58						
	All ages inc. 65 and Over. Cities of 25,000 and Over. Remainder of District.			15.38						
7 Dentists.	15-24	725	2	2.76						
	25-44	2,396	20	8.35						
	45-64	1,166	24	20.58						
	All ages inc. 65 and Over. Cities of 25,000 and Over. Remainder of District.			12.69						
8 Architects Artists, Teachers Art. Designers Draftsmen re.	15-24	3,008	19	6.32						
	25-44	5,908	56	9.48						
	45-64	2,461	45	18.25						
	All ages inc. 65 and Over. Cities of 25,000 and Over. Remainder of District.			12.38						
9 Teachers in Schools.	15-24	2,755	8	2.90						
	25-44	5,828	36	6.18						
	45-64	2,230	32	14.35						
	All ages inc. 65 and Over. Cities of 25,000 and Over. Remainder of District.			10.35						
10 Civil Engin- ers and Surveyors.	15-24	3,255	4	1.23						
	25-44	7,008	22	3.14						
	45-64	2,455	24	9.39						
	All ages inc. 65 and Over. Cities of 25,000 and Over. Remainder of District.			6.62						
				5.48						
				6.16						

# 8. Agricultural and Other Outdoor Pursuits.



9. Comparison of Death Rate in certain Specified Occupations in England and the United States by Groups of Ages.

England 1880-1882			United States - Northeastern Division except Maine and Delaware and including the District of Columbia		
Occupations	25-44	45-64	* Occupations	25-44	45-64
Bakers and Confectioners	8.70	26.12	Bakers and Confectioners	11.19	28.45
Tailors	10.73	26.47	Tailors	8.57	28.17
Apothecaries Pharmacists &c	10.58	25.16	Apothecaries Pharmacists &c	11.47	27.79
Butchers	12.16	29.08	Butchers	11.83	26.24
Musicians and Teachers of Music	13.78	32.30	Musicians and Teachers of Music	10.59	25.65
Plasterers and Whitewashers	7.79	25.07	Plasterers and Whitewashers	13.20	25.56
Cabinet Makers & Upholsters	9.55	24.77	Cabinet Makers & Upholsters	9.31	21.90
Lawyers	7.54	23.13	Lawyers	8.50	21.68
Boot and Shoemakers	9.31	23.36	Boot and Shoemakers	8.65	21.26
Physicians and Surgeons	11.57	28.03	Physicians and Surgeons	9.52	21.15
Blacksmiths	9.29	25.67	Blacksmiths	9.02	18.56
Carpenters and Joiners	7.77	21.74	Carpenters and Joiners	7.11	16.60
Clergymen	4.64	15.93	Clergymen	5.88	14.72
Teachers in Schools	6.41	19.84	Teachers in Schools	6.18	14.35
Bookbinders	11.73	29.72	Bookbinders	16.67	13.76
Barbers and Hairdressers	13.64	33.25	Barbers and Hairdressers	11.80	24.84
Comm. Travelers & Salesmen	9.04	25.03	Comm. Travelers & Salesmen	5.78	12.97

\* See note 8 at end of book

10. Death Rate of Females in certain Specified Occupations by Groups of Ages

* Occupations	15-24	25-44	45-64	65 & Over	Cities	Rem of District	Total.
Servants	4.57	15.48	48.87	25.88	17.17	20.24	18.18
Nurses and Midwives	3.86	5.80	13.87	5.333	10.34	13.43	11.16
Saundresses	3.20	5.22	8.59	7.49	7.23	3.42	6.70
Mills and Factory Operators (excl.)	4.11	6.63	16.26	36.80	5.64	4.50	5.29
Milliners Dressmakers &c	2.00	4.77	8.88	37.21	4.22	5.06	4.41
Teachers in Schools	2.64	17.5	9.23	121.86	4.86	3.81	4.34
Telegraph and Telephone Operators	2.59	6.92	12.50	- - -	4.29	3.05	4.05
Art of Flower & Paper Box Makers	2.06	8.44	5.59	- - -	3.76	1.54	3.49
Hotel and Boarding House Keepers	-	2.21	4.09	5.03	3.33	3.90	3.45
Cigar Makers & Tobacco Workers	1.65	6.70	5.12	47.62	3.14	10.64	3.38
Accountants, Bookkeepers &c	2.31	3.94	8.52	36.59	3.18	3.03	3.16
Musicians and Teachers of Music	9.8	2.33	10.38	- - -	2.86	1.32	2.38
Stenographers and Typewriters	1.79	1.47	14.71	- - -	1.76	2.10	1.81

\* See note 9 at end of book.

## Notes By The Compiler.

1. The effect of Occupation on the death rate is not immediately perceptible in all cases. Frequently the death ratios will be as low or even lower in hazardous or semi-hazardous occupations in the younger Age Groups than in many lighter and presumably more healthful callings.

Of the 41 Sub-Groups under "Manufacturing and Mechanical Pursuits" but 12 are in excess of the general death rate of the country in Age Group 15-24. But 24 are in excess in the next Age Group and 34 from 45-64.

The same tendency will be noticeable in the other General Divisions. The fact therefore that "Sailors" or "Cigar Makers and Tobacco Workers", show a death rate below the normal in Age Group 15-24, argues nothing for the healthfulness of those occupations. It is very much above the normal from 45-64 in both cases.

On the other hand many persons engage in light or semi-professional occupations for want of a physical development that would permit their entering some other calling requiring greater muscular power. For this reason some of the lighter, more healthful or less hazardous occupations show an abnormal death rate during the younger ages. In such cases the death rate in the older Age Groups will invariably be lighter.

Medical examination will do much to correct the ratios in such cases.

2. For the reasons stated above and others that readily suggest themselves we are of the opinion that the real effect of occupation on the death rate will be more readily apparent by discarding Age Groups 15-24 and 65 and Over and instituting a comparison of Age Groups 25-44 and 45-64 (especially the latter) with the general death rate.
3. We do not attach much significance to the ratios derived from so small a number of lives in the different Age Groups.
4. It must be borne in mind that data for this classification is drawn mainly from the Northeastern Division of States which is not a mining district. We regret not being able at the present time to furnish more conclusive evidence.

5. This is an unfortunate classification, but the best that could be done with the data in the form in which it was received. If R R Employees occupying office and clerical positions had been classed by themselves the ratios would have been about the same as for "Clerks Accountants & Conductors on Passenger Trains" would be about the same as shown herein, while "Engineers, Brakemen, Firemen, Freight Conductors, Switchmen and Yardmen" would be raised about 62%.
6. This is another unfortunate grouping. If "Restaurant Keepers" had been classed with "Hotel and Boarding House Keepers" the ratios for that sub-group would not have been materially changed while "Saloon Keepers and Bar-Tenders" would have advanced about 47% from the figures given herein.
7. The ratios for this sub-group will be a surprise to many. We simply give the facts as we find them regretting that we could not have access to more extensive data.
8. The data for the United States being taken from that locality showing the highest death rate it is more than probable that similar data for the whole country would show ratios below the English in each case.
9. But little significance is attached by the Compiler to this Table. In a majority of cases the number of lives is too small and the general information obtainable too meagre to be of much value. At least it should be regarded as far from conclusive.

## PART V. CLASSIFICATION OF RISKS BY OCCUPATION.

1. Manufacturing Industries.
2. Mercantile and Trading
3. Official and Clerical.
4. Personal Service and Entertainment.
5. Police, Military, Naval and Other Water Service.
6. Professional and Semi-Professional.
7. Skilled Labor, Trades and Mechanical Pursuits.
8. Transportation, Mining, Quarrying.
9. Various Out-Door Pursuits and Occupations not otherwise specified.



## NOTE BY THE AUTHOR.

The following Classification of Risks is based upon deductions from Part IV of this work. But although that is the basis and has been followed approximately in a majority of cases, the author has not hesitated to ignore it whenever the facts seemed to justify a departure or variation from it. There are several reasons for an occasional, and in some instances, for a radical variation from the classifications suggested in Part IV.

(1) The data for Part IV was derived practically from the Northeastern Division of States. In some occupations no amount of data from that section alone would correctly represent the whole country. Since that is not to any great extent a mining region, it follows that data for the classification of miners, and for that part of railroad business that is contingent upon mining, must be drawn from other sources. The foregoing will also apply to a number of other occupations.

(2) In a number of the occupations referred to in Part IV there were not lives enough in any of the age groups to constitute a basis from which to deduce reliable and satisfactory mortuary averages, and we were therefore obliged to gather information from a wider field.

(3) In many instances the groupings in Part IV are not satisfactory and separations and sub-classifications had to be made, involving a more extended search. In short, we have not hesitated to avail ourselves of any information from any source that seemed authentic, reliable and trustworthy.

The various classifications are arranged, as will be seen, in nine General Divisions, following in a general way the arrangement in Part IV, thus securing approximate uniformity.

With reference to mortuary exposure, the occupations are divided into eight classes, as shown below, and these classes stand related to each other approximately as shown in the right hand column, counting C as 100:

A. Preferred	66
B. Select	80
C. First-Class	100
D. Medium.	125
E. Doubtful.	150
F. Hazardous	200
G. Extra Hazardous.	300
H. Not Insurable.	450

It will be noticed that a D risk represents a mortuary exposure nearly double, F three times, and H nearly seven times that of class A.

These classifications have no primary or direct reference to exposure to accident or injury, as the Accident Company Classifications have, although in some instances there is a tolerably close parallel. This follows naturally, since wherever there is *any* risk of injury there is *some* risk of death. In some instances the increased hazard is almost wholly due to the risk of accident or injury, as in the manufacture or handling of highly explosive substances; but there are also many others where the exposure to accident is very slight and the mortuary risk very great, owing to the inherent unhealthfulness of the occupation itself.

## 1. MANUFACTURING INDUSTRIES.

Acetyline Gas Manufacturers.		Bolt and Nut Makers	E
(a) Prop. or Manager, office duties only.	B	Bone and Ivory Workers, except as specified elsewhere	E
(b) Proprietor or Employee, working.	F	Boot and Shoe Makers, employees in factory	E
Acid Makers, working.		Borax Workers, employees	F
(a)	E	Bottle Makers.	E
(b) Sulphuric acid (vitriol)	F	Box Makers, employees in shop or factory	E
(c) Wood acid.	E	Breweries.	
Agricultural Implement Makers.		(a) Prop. or Manager, office duties only	E
(a) Hand tools only.	E	(b) Supt. or Foreman, supervising only	E
(b) Using machinery	F	(c) Brewers, Malsters and other employees	F
Artificial Flower Makers	D	Brick Makers	D
Artificial Limb Makers.		Brittania Ware Makers	E
(a) Hand tools only.	D	Broom and Brush Makers.	
(b) Using machinery	E	(a) Hand tools only.	E
Automobile Makers or Repairers	E	(b) Using machinery.	F
Awning or Tent Makers, employe in shop or factory ..	E	Button Makers.	
Axe Makers	E	(a) Sawyer or using drop	F
Axle Makers	E	(b) Bone or Ivory, using awls	E
Axle Grease Makers	E	(c) Composition, using screw, plate or buffer..	D
Baby Carriages, employees in shop or factory	E	Candy Makers, employees in factory.	D
Badge Makers.	D	Candle Makers, Tallow Chandlers.	D
Bag Makers.	D	Can Makers.	
Baking Powder Employees in shop or factory.	E	(a) Not using die.	E
Barbed Wire Employees in factory	F	(b) Using die. . .	F
Basket Makers.		Canning Factory Employees.	E
(a) Splitter and Weaver	D	Carbon Black Makers.	E
(b) Splint Sawyer.	F	Car Manufacturers, employees in shops	F
Bell Makers or Founders.	E	Card and Card Board Makers	D
Belt or Belting Makers, employees in factory	E	Carpet Bag Makers	D
Bent Wood Works, employees in factory.	E	Carpet Makers in factory.	E
Bessemer Steel Workers.	F	Carriage or Wagon Makers.	
Bicycles, workmen in factory	E	(a) Hand tools only.	E
Billiard Balls	E	(b) Using machinery	F
Billiard Tables, employees in shop or factory	E	Cartridge Makers	H
Blacking or Dressing Makers	E	Catsup or Soup Makers	D
Blank Books, employees in shop or factory.	E	Celluloid Workers.	F
Blast Furnace Workers, all employees	F	Cement Workers in factory.	F
Blinds, Sash and Door Operatives.		Chain Makers.	F
(a) Hand tools only.	E	Charcoal Iron Workers	F
(b) Using machinery	F	Chemical Works Employees	F
Block, Oar and Mast Makers.		Chewing Gum, employees in factory.	E
(a) Hand tools only.	E	Chocolate or Cocoa Makers.	D
(b) Using machinery	F	Cider Vinegar Makers	D
Boat Builders	E	Cigar Makers, employees in factory	F
Bobbin, Spool and Shuttle Makers	E	Circular Sawyer (see Lumber Mills.)	
Boiler Compound Manufacturers	E		
Boiler Makers.	F		

## 1. MANUFACTURING INDUSTRIES—CONTINUED.

Clay or Stoneware Pipe Workers (see Tile Makers)		Felt Roofing Makers.	E
Clock and Watch Makers, employees in factory	F	Fertilizer Makers.	E
Coffin or Casket Makers.		Fiber Manufacturers' employees.	D
(a) Hand tools only.	D	File Makers, employees working	F
(b) Using machinery	E	Fire Engine, Escape or Hose Makers	E
(c) Trimmer	D	Fire Works Makers	H
Collar and Cuff Makers	D	Fishing Tackle Makers	D
Color Makers	D	Flaging Stone Makers.	E
Concentrator, Smelter and Quartz Mill employees.	F	Flour and Tale Mill Employees	E
Confectioner Working	D	Foreman of Mill or Factory, supervising only, unless otherwise classified	C
Condensed Milk Factory Employees	E	Forgeman, not drop forger	F
Converting Department Operatives	F	Fork Mill Employees	F
Cooper Manufacturers.		Foundrymen.	F
(a) Hand tools only.	E	Furnace and Grate Makers	E
(b) Using barrel machinery	F	Furniture Factory Employees.	F
Cordage or Rope Makers	D	Furriers, not dealers	D
Core Cutters and Core Makers	E	Garden Tool Makers.	F
Cork Cutters.	E	Gas Fixtures, Gas Machine and Gas Burner Makers	E
Cornice Makers or Molders (plaster, tin, iron, zinc or copper)		Gas Works Employees.	E
(a) Shop work only.	E	Gas or Water Meter Makers	E
(b) Outside work or setting	F	Glass Workers and Glass Blowers, employees.	F
Corn Shellers, employees in factory.	F	Glove Factory Employees	D
Corset Makers	D	Glucose Works Employees	F
Cotton or Woolen Mill Operatives	D	Glue or Mucilage.	E
Crucible Steel Workers	F	Gravity R. R. Employees	F
Cutlery Manufactory Workers	F	Grease Makers.	E
Dental Supplies Manufactory Workers.	F	Grindstone Makers	E
Distillers and Rectifiers.		Hammock Makers.	D
(a) Prop. or Manager, office duties only	E	Hat and Cap Makers, employees in factory.	F
(b) Supt. or Foreman, supervising only.	E	Hat or Bonnet Block Makers	E
(c) Laborers in	F	Hollow Ware Makers.	
Driven Well Points	E	(a) Iron, not handling hot metal	E
Dolls, Notions and Toys, employees in factory	E	(b) Handling hot metal.	F
Drop Forger, or one using drop press.	G	(c) Hollow wooden ware.	E
Dynamite, Powder, Nitroglycerine, etc., manufacturers	H	Hoop Makers.	
Emery Cloth and Paper Makers.	E	(a) Not using machinery	E
Emery Wheels and Grinding Machinery Makers.	F	(b) Using machinery	F
Envelope Makers.	E	Hoop Skirt Makers. ....	D
Excelsior Factory Operatives, not specified elsewhere..	F	Hosiery Mill Employees	D
Extract Makers	C	Horse Shoe Makers	E
Feather Duster Makers	D	India Rubber Workers	D
Felt Makers	D	Ink Makers.	D
		Iron Workers (structural)	F
		Iron Tube Workers.	F
		Iron and Steel Workers (see different classifications)	

## 1. MANUFACTURING INDUSTRIES—CONTINUED

Iron Railing Makers	E	(b) Supply Dealer, Business Manager, supervising only.	B
Lace Makers	C	(c) Foreman at Crude Stills, Gauger, Inspector, Stillman, supervising only, Superintendent of Pipe Line outside, Weigher . . . . .	C
Ladder Makers.		(d) Still Cleaner, Casing Puller, Filtermen, Hoisters, Loaders or Fillers, Machinists, Operators working about wells, Paraffine Wax Makers, Pumpmen, Riggers, Tank Builders, Treaters of Oil in Refinery, Watchmen. . . . .	E
(a) Not using machinery	E	(e) Stationary Engineer or Fireman, Driller, Laborer at Yard, Platform or Well . . . . .	F
(b) Using machinery	F	(f) Laborers on Pipe Line, Line Constructor, Stillman firing or running Stills at Refinery	G
Lamp and Lantern Makers.	D	Open Hearth Steel Workers. . . . .	F
Last Makers.		Optical Instrument Makers.	E
(a) Hand tools only.	D	Overseers in Mills and Factories, supervising only (unless otherwise classified)	C
(b) Lathe work.	E	Packing Case Makers	E
(c) Circular saw	F	Packing House Employees	F
Lead Pencil Makers	E	Pail Makers	F
Lead, Sheet, White or Pipe Makers	F	Paint Makers	D
Leather Board Makers	D	Paper Bag or Box Makers	D
Level or Rule Makers.	E	Paper Mill Operatives	D
Lightning Rod Makers	E	Paper Mache Molders or Carvers	E
Looking-Glass Makers	D	Pattern Makers	E
Lumber Mills, all employees in mills or yards not doing office or clerical work	F	Pen or Pencil Makers	E
Malleable Iron Workers.	E	Percussion Cap Makers	H
Manager, office duties only (unless otherwise classified)	A	Perfume Makers	D
Manufacturer, office duties only (unless otherwise classified).	A	Phosphate Works Employees	E
Marble and Granite Workers, not quarriers	E	Piano Makers.	E
Mat and Matting Makers.	D	Pickle Makers	D
Match Makers	E	Picture Frame Makers	E
Mattress Makers	E	Pin Makers.	D
Mineral Water Makers.	E	Pistol or Gun Makers.	E
Model or Pattern Makers.	E	Plaster Makers (same as Cement Workers.)	
Molder and Molding Machine Workers	G	Pocket-Book Makers. . . . .	D
Muck Rolls (iron and steel workers)	F	Pottery Workers.	D
Nail Makers or Choppers.	E	Powder Mill Employees.	H
Nautical Instrument Makers.	D	Printing Press Makers	E
Needle Makers.	D	Proprietors, office duties only (unless otherwise specified).	A
Nitroglycerine or its Compounds, Manufacturer or Custodian	H		
Oil Cloth or Linoleum Factory, employees	F		
Oil Mills (cotton or linseed) Operatives.			
(a) Cakeman, Gauger, Foreman of Machinery, Pressman	E		
(b) Engineer, Fireman, Shaver, Laborer.	F		
Oil Wells and Refineries.			
(a) Proprietor, General Manager, Operator or Producer, Broker, Salesman, Superintendent of Pipe Line, office duties only.	A		

## 1. MANUFACTURING INDUSTRIES—CONCLUDED.

Pulp Mill Employees	E	Stove Works Employees	F
Pump Makers.		Sugar Refinery Employees	F
(a) Metal	D	Superintendent, supervising only (unless	
(b) Wood	E	otherwise classified).	C
Putty Makers.	E	Surgical Instrument Makers.	E
Pyrotechnists .	H	Suspender Makers.	D
Quartz Mill Employees	F	Tack Makers	D
Rail Mill Employees	F	Tallow and Grease Makers	E
Rattan and Reed Workers.	D	Tank and Vat Makers	E
Rolling, Rod, Plate and Sheet Mills	F	Tannery Employees	E
Rosin, Tar and Turpentine Makers.	F	Tar, Turpentine or Rosin Makers	F
Rubber Works Employees.	D	Tent or Awning Makers	E
Rule or Level Makers	E	Terre Cotta Makers.	D
Sail Makers	D	Thermometer Makers	D
Safe Makers.	E	Thread and Yarn Makers.	D
Salt Works Employees.	E	Tile Makers	E
Satchel Makers	D	Tool Makers.	
Sausage Makers.	E	(a) Not using machinery	E
Saw and Tool Makers.	E	(b) Using machinery	F
Scale Makers .	D	Trunk Makers	D
Screw Makers.	E	Tub and Pail Makers	F
Scythe and Sickle Makers	E	Tube Works Employees.	F
Sheet Lead Makers	F	Type Founders	D
Shirt Makers..	D	Typewriter Makers or Assemblers.	E
Shoddy Makers	E	Umbrella Makers.	D
Shingle Mill Operatives	F	Valve or Steam Gauge Makers.	E
Shoe Peg Makers .	E	Varnish Makers	E
Shovel Makers	E	Vinegar Makers	D
Show Case Makers	E	Vitriol Makers	F
Shuttle Makers.		Watch and Clock Makers, employees in fac-	
(a) Not using circular saw.	E	tory	F
(b) Using circular saw	F	Wax Flower Makers	D
Silk Mill Employees	D	Whip Makers	D
Smelter Employees	F	White Lead Makers	F
Soap Factory Employees	E	Wig Makers . . . . .	D
Soda Water Makers	E	Window Screen and Shade Makers	D
Spectacle Makers.	D	Wind Mill Makers, shop work only, not put-	
Spindle Makers .	E	ting up.	E
Spool Makers	E	Wire Makers, employees in factory.	F
Spring Makers.		Wire Mattress Makers	D
(a) Bed or sofa springs	E	Woolen Mill Operatives.	D
(b) Wagon or buggy springs	F	Yarn Makers or Spinners. . . . .	D
Stamp Mill Employees	F	Yeast Makers.	D
Starch Makers	D	Zinc Works Employees. . . . .	F

## 2. MERCANTILE AND TRADING.

Apothecaries, Druggists, Dealers in Drugs, Chemicals and Druggists' Sundries.		
(a) Proprietors, not working, or super- vising only	D	
(b) Pharmacists, professional and store duties only	D	
(c) Clerks (not pharmacists), general du- ties	E	
Bakers.		
(a) Proprietors or Managers, office and counter duties only	C	
(b) Clerks, store duties only	D	
(c) Clerks or employees driving wagon	E	
Bird Dealers	B	
Coal Dealers.		
(a) Proprietors or Managers, office duties only.	B	
(b) Proprietors working in yard or deliv- ering	E	
(c) Employees, loading or unloading cars or wagons	F	
Commercial Travelers.		
(a) Selling goods by sample only	A	
(b) With teams, selling goods from wagon.	C	
Fish and Oyster Dealers.		
(a) Proprietor or Manager, store duties only.	C	
(b) Clerks, store duties and delivering	D	
Florists, Dealers.		
(a) Proprietors or managers, store duties only	B	
(b) Clerks or employees, store duties and delivering	C	
Fruit Dealers.		
(a) Proprietors or managers, office or store duties only.	B	
(b) Clerks, packing, unpacking or deliv- ering	D	
Guns and Ammunition Dealers.	E	
Hucksters and Peddlers (any class of goods)	E	
Junk Dealers	E	
Marketmen, stall, shop or wagon.	E	
Merchants and Dealers, Wholesale or Retail, in any of the lines specified below:		
Advertising Novelties.		Artists' Materials.
Agricultural Implements.		Art Stores.
Architects' Supplies.		Automatic Engines.
		Baby Carriages.
		Bakery (office or counter work only.)
		Bee Keepers' Supplies.
		Bicycles, Sundries and Supplies.
		Books and Stationery.
		Boots and Shoes.
		Builders' Supplies.
		Carpets, Oil Cloth, Matting, etc.
		Cash Registers.
		Cigars and Tobacco.
		Clothing.
		Commission Merchant, not handling goods.
		Confectionery.
		Crockery, China, etc.
		Dairy and Creamery Supplies and Products.
		Dolls, Notions and Toys.
		Dry Goods.
		Electrical Goods and Supplies.
		Flour, Grain, Hay and Feed.
		Furnaces and other Heating Apparatus.
		Furniture.
		Gents' Furnishings.
		Groceries.
		Hair Goods.
		Hardware.
		Hats, Caps, Gloves or Furs.
		Hides and Pelts.
		Ice.
		Iron and Steel, Stock and Products.
		Jewelers (dealer, not operative.)
		Lace Curtains and Draperies.
		Lamps, Glass and Glassware.
		Leather and Leather Products.
		Mantels and Grates.
		Millinery.
		Musical Instruments and Musical Merchandise.
		Merchant Tailors, store duties only.
		News Dealers.
		Opticians, dealer, not manufacturer.
		Paints, Oils and Varnish.
		Paper Stock and Paper Products.
		Pawnbrokers.
		Pickle Dealers.
		Produce or Provisions, not general store.
		Poultry, Fish or Game.
		Seedsmen.
		Stoves and Tinware.
		Tea Dealers.
		Wagons and Carriages.
		Woodenware.
		Wood Dealers.
		Wool and Woolen Goods.

## MERCANTILE AND TRADING—CONCLUDED.

Classification for the foregoing mercantile lines:

- (a) Proprietors or General Managers, not working or office duties only. A
- (b) Chief Clerks or Business Managers, supervising only. A
- (c) Buyers. A
- (d) Manager Advertising Department A
- (e) Floor Walkers B
- (f) Cashiers. C
- (g) Clerks or Salesmen, counter duties only. C
- (h) Clerks, packing, unpacking, wrapping and preparing for shipment or delivery. D
- (i) Shipping Clerks or Checkers, not handling goods C

- (j) Clerks or Apprentices, handling packages, delivering or driving delivery wagon E
- Merchants, General Stores.
  - (a) Proprietors or Managers, general duties C
  - (b) Clerks or Salesmen, store duties only. D
  - (c) Clerks or Salesmen, delivering goods. E
- Milk Dealers.
  - (a) In store, not delivering C
  - (b) Delivering from wagon. D
- Mineral Water Dealers (not bottling or manufacturing. C
- News Agents on trains. E
- Post Traders. C
- Second Hand Stores (any class of goods) E
- Wine and Liquor Dealers (wholesale or retail). F

## 3. OFFICIAL AND CLERICAL.

- Abstracters C
- Accountants C
- Adjusters (insurance and the like) A
- Agents—Advance, Advertising, Baggage, Book, Commercial, Financial, Insurance, Land, Lightening Rod, Loan, Nursery, Passenger, Real Estate, Sewing Machine, etc. Office duties, traveling or soliciting only. A
- Assessors. A
- Auctioneers. B
- Auditors—City, County or State A
- Auditors, office duties or traveling A
- Bailiffs or Court Officers C
- Bankers.
  - (a) Officer, not working, or office duties only. A
  - (b) Cashier, Teller, Inspector B
  - (c) Clerk, Messenger, Collector. C
- Bookkeepers, office duties only D
- Brokers—Bonds, Chemicals, Cigars, Cotton, Glass, Gold, Grain, Investments, Insurance, Live Stock, Merchandise, Provisions, Railroad Tickets, Stocks, etc. Office duties or soliciting only. A

- Capitalists, Private Bankers, Money Lenders A
- Conveyancers, office duties only. C
- Coroners. D
- Custom House Officers or Inspectors A
- Claim Agents A
- Clerks.
  - (a) Civil or official positions, office duties only. B
  - (b) Mercantile lines, office or store duties only (see classification elsewhere.)
  - (c) Hotel or restaurant, desk or supervising duties only. D
  - (d) Boat, steamer or sea-going vessel G
- Collectors or Deputy Collectors.
  - (a) Government C
  - (b) Private accounts, office duties only A
  - (c) Outside or traveling B
- Constables, civil writs only. D
- Consuls, government office B
- Copyists. D
- Court Reporters. C
- Employment Office C
- Financial Agents. A
- Highway Commissioners, no other duties. A

## 3. OFFICIAL AND CLERICAL--CONCLUDED.

Indian Agents on Reservation	C	Passenger Agents, traveling	A
Inspectors.		Purchasing Agents, office duties only	A
(a) Custom House, Gas Meter, Grain,		Scale Inspectors, supervising only.	B
Internal Revenue, Postal, Insur-		Station Agents, office duties only.	B
ance, Elevators, Telephone, In-		Store Keepers, office duties only.	B
dian Agencies, Flour or Grain,		Superintendents or Assistants, traveling	A
Lumber, Meats, Tobacco, Milk, etc.	A	Superintendents of Buildings and Bridges	B
(b) Hulls and Boilers, Bridges, Stone		Superintendents of Motive Power, office or	
work and Masonry, Telegraph	C	traveling duties only.	A
Librarians..	B	Superintendents of Tanks and Water Supply	B
Letter Carriers.	C	Superintendents of Telegraph.	
Marshals or Deputy, U. S. Courts.	D	(a) Office duties only.	A
Paymasters, office or traveling duties only	A	(b) Outside, supervising only.	B
Postoffice Clerks, office duty only..	C	Supply Agents, office duties only.	A
Postal Clerks, R. M. S	D	Telegraph Operators, office duties only.	C
Postmaster, office duties only	C	Ticket Agents, office duties only	B
Presidents of Company or Corporation, office		Tie Inspectors	C
duties only..	A	Time Keepers.	B
Proof Readers	C	Traffic Managers, office duties only.	A
Railroad Officials and Employees--In official		Train Masters, office duties only	A
or clerical positions		Real Estate Agents or Brokers	A
Car Accountants, office duties only	B	Reporters	C
Car Inspectors	B	Route Agents, express companies, auditing only	B
Car Tracers, office duties only	B	Secretaries of Companies or Corporations,	
Checking Clerks, in freight house, not		office duties only	A
handling freight.	C	Sheriffs or Deputies.	D
Commercial or Traveling Agents, office or		Ship Brokers, office duties only	A
traveling duties only	A	Ship Builders, Proprietor or Superintendent,	
Contracting Agents, office duties only	A	office or supervising duties only	A
Contractors (construction), supervising only	B	Shipping Clerks, not handling goods	C
Depot Masters, supervising only	A	State Mine Inspectors	B
Dispatchers, office duties only	A	Stenographers or Typewriters.	B
Division Superintendents, office or travel-		Street Commissioners, supervising only.	B
ing duties only	A	Superintendents of Companies or Corporations,	
Division Road Masters, supervising only	B	office or supervising duties only.	A
Freight Agents at Station, office and super-		Telegraph Operators, office duties only.	C
vising duties only	C	Telephone Operators, central or exchange office	C
Fuel Agents, office duties only	B	Telephone Inspectors (not linemen)	B
General Agents (traveling)	A	Ticket Agents, office duties only	B
General Freight Agents, office or traveling		Time Keepers..	B
duties only	A	Treasurers of Companies or Corporations, office	
General Master Mechanic, office duties only	A	duties only	A
General Managers, office duties only	A	Truant Officers.	B
General Passenger and Ticket Agents,		U. S. Marshals, or Deputy..	D
office and traveling duties only.	A	U. S. Government Store Keepers	B
General Road Masters	A	Wardens or Deputy--House of Correction,	
General Superintendents	A	Refuge, Reform School or State Prison	D
Master Mechanics, supervising only	C	Warehouse Checkers, not handling goods	C

#### 4. PERSONAL SERVICE AND ENTERTAINMENT.

Attendants, Nurses, Companions, etc. (private, not professional nurses).....	E	Eating House Keepers (not saloon)..	D
Barbers and Hairdressers.		Janitors..	D
(a) Proprietor, not working, or office duties only.	D	Massage Attendants..	D
(b) Proprietor, or employees working	E	Messengers..	C
Bartenders.....	F	Porters, inside work	E
Bath Rooms.		Restaurant Keepers (not saloon.)	
(a) Proprietors, supervising only.	D	(a) Office duties only.	D
(b) Proprietors, or employees working	E	(b) General duties	E
Billiard Room or Bowling Alley Keepers.		Saloon Keepers, proprietor or employe	F
(a) Without Bar.	E	Servants	F
(b) With Bar.	F	Sextons of Church or other Buildings, Janitors..	D
Boarding House Keepers	D	Shooting Gallery Keepers	E
Coffee House Keepers.	D	Undertakers.	
Hotel Keepers.		(a) Proprietors, office duties and funeral director only...	C
(a) Proprietors, office or supervising duties only (not tending bar or stable)	C	(b) Proprietors, working.	D
(b) Clerks, office duties only (not tending bar or stable)..	D	Waiters.	
(c) Clerks, tending bar or stable	F	(a) Hotel, Boarding House or Restaurant	E
(d) Porters	E	(b) On Dining or Hotel Car	F
(e) Stewards..	D	(c) River, Sound, Lake or Sea-going Vessel	G

#### 5. POLICE, MILITARY, NAVAL AND OTHER WATER SERVICE.

Army or Naval Officers.		Harbor Masters	D
(a) In time of peace	G	Ice Barge Employees	G
(b) In time of war	H	Jailors..	F
Bargemen..	F	Lightermen.	G
Boat House Proprietors, supervising only	C	Light House or Light Ship Keepers..	E
Boatmen.	F	Longshoremen.	F
Canal Bridge Swingers, Dock Masters or Lock Tenders..	E	Naval Store Keepers (tar, rosin, etc.)..	F
Canalmen..	F	Park Guards or Police.	D
Common Sailors (river, lake, sound or sea-going vessel)	H	Patrolmen, Policemen.	F
Constables—Police duty	E	Pile Drivers	
Deck Hands on Boat	H	(a) Foremen, supervising only	F
Detectives.	E	(b) Employees	G
Divers (submarine).	H	Pilot (river, lake, sound or sea service).	F
Dredge Boat Employees.	H	Police.	
Engineers (dredge boat, pile driver, river, sound, lake or sea-going vessel, tug boat). H		(a) Chiefs, Inspectors or Superintendents.	D
Fishermen.		(b) Captain, Lieutenants or Sergeants.	E
(a) River or sound.....	F	(c) Roundsmen or Patrolmen.	F
(b) Sea or great lakes..	G	Postal Detectives	E
		Prison Guards or Keepers..	F
		Private Watchmen..	E

## 5. POLICE, MILITARY, NAVAL AND OTHER WATER SERVICE—CONCLUDED.

Purser (river, lake, sound or sea-going vessels)	E	Stewards (river, lake, sound or sea-going vessels)	E
Raftsmen (lumber) or river driver	H		
Seamen, common.	H	Submarine Divers	H
Soldiers.		Watchmen.	
( <i>a</i> ) In time of peace.	F	( <i>a</i> ) In bank or office	D
( <i>b</i> ) In time of war	H	( <i>b</i> ) Store, factory, mill or warehouse	E
Stevedores	G		

## 6. PROFESSIONAL AND SEMI-PROFESSIONAL.

Actors.	E	Dancing Masters..	C
Actuaries.	A	Dentists...	C
Aerobats..	G	Designers or Draughtsmen	C
Aeronauts ..	II	Editors.	
Architects.		( <i>a</i> ) Writing or managing	C
( <i>a</i> ) Office duties only	B	( <i>b</i> ) Superintendent Printing Office, supervising only.	B
( <i>b</i> ) Supervising only	C		
( <i>c</i> ) Naval, supervising only	D	Farriers, veterinary surgeons	D
Artists, painter in studio only	C	Football Players (professional)	H
Assayers..	C	Geologists	D
Attorneys at Law	C	Gymnasium Masters, or Instructors..	D
Authors, or persons engaged exclusively in literary work..	D	Interpreters.	A
Aurists.	B	Inventors.	A
Baseball Players (professional)	H	Jockeys (rider in races)	H
Bicycle Racers (professional)	H	Lapidaries	C
Bicyclists, teachers or exhibitors	D	Lawyers.	C
Cancer Specialists	B	Metallurgists	A
Chemists.		Music Teachers	D
( <i>a</i> ) Manufacturers chemicals and drugs, supervising only	A	Musicians	D
( <i>b</i> ) Laboratory work, testing, analyzing, etc	D	Nurse, professional, not insane.	E
Chiropodists or Manicurists, office duties only.	B	Nurse, professional—keeper of insane, private or in hospital	F
Circus Performers or Riders	H	Oculists...	C
Civil Engineers.		Opticians.	
( <i>a</i> ) Consulting or supervising only.	A	( <i>a</i> ) Merchant, store duties only.	A
( <i>b</i> ) Field work.	C	( <i>b</i> ) Working in shop	C
( <i>c</i> ) Mining operations	D	Orderlies, or Nurses in Hospital	F
( <i>d</i> ) Mechanical.	D	Physicians.	D
Clay Moulders, or designers	D	Riding School Masters	E
Clergymen	A	Roller Skating Teachers	D
Concert Singers	B	Scientists.	D
Cook, chef.	E	Sculptors.	
		( <i>a</i> ) Studio work	C
		( <i>b</i> ) Chiseling	E

## 6. PROFESSIONAL AND SEMI-PROFESSIONAL—CONCLUDED.

Showmen, not circus performers	F	Surveyors.	
Students.		(a) Office duties only.	A
(a) College.	A	(b) Field work	B
(b) Medical.	A	Taxidermists	C
(c) Law	A	Teachers or Professors in school or college	B
Surgeons	C	Theatrical Managers	D
		Writers, authors, composers.	D

## 7. SKILLED LABOR TRADES AND MECHANICAL PURSUITS.

Armorer.		Building Movers.	
(a) Not using machinery	E	(a) Manager or foreman.	E
(b) Using machinery	F	(b) Employee	F
Asbestos Workers, pickers and sorters	D	Burnishers.	
Asphalt, floor, walk or street layers	E	(a) Not using emery wheel	D
Awning Hangers.	D	(b) Using emery wheel	F
Bakers, working in bakery or factory.	E	Butchers.	
Beef Handlers, in warehouses.	E	(a) Proprietor, not slaughtering, cutting	
Bell Hangers	E	or driving wagon	C
Bicycle Repairers, shop work only.	E	(b) Meat cutter, keeper of market	E
Blacksmiths.		(c) Slaughterer.	F
(a) General shop work, not shoeing	E	Buzz Sawyers.	G
(b) Horse and cattle shoer	F	Buzz Planers.	G
(c) Ironing carriages	E	Cabinet Makers.	
(d) In machine shop, foundry or factory.	F	(a) Hand tools only.	E
Blasters in Quarries, Wells or Mines.	G	(b) Using machinery	F
Bleachers.	D	Caulkers, ships.	E
Book Binders.		Carpenters.	
(a) Hand tools only.	D	(a) Shop or bench work only	D
(b) Using machinery	E	(b) Framing of buildings, and builder,	
Boothblacks	D	working	F
Boot and Shoemakers, or repairers in shop,		Carpet Cleaners	D
hand tools only	D	Carpet Layers	E
Boring Machine Operators or Tenders	E	Carpet Weavers	E
Bottle Washers	E	Carvers, wood, bone, metal or ivory.	
Bottlers, (liquors, carbonated waters or soda)	E	(a) Hand tools only.	E
Brass Finishers or Polishers.		(b) Using machinery	F
(a) Not using emery wheel.	D	Caterers.	D
(b) Using emery wheel	F	Cedar Block Pavers.	D
Brass Founders	E	Cement Walk Layers	E
Brick Layers or Masons.	E	Chimney Sweepers	G
Bridge Builders.		Clothing or Cloak Makers.	E
(a) Contractor or foreman, working.	F	Coffee Packers or Roasters	D
(b) Employee	F	Coal Heavers	F
Bridge Keepers	D	Coke Drawers or Chargers	E
Builders.	F		

## 7. SKILLED LABOR TRADES AND MECHANICAL PURSUITS—CONTINUED.

Compositors.		Mining.	
(a) Case work only	D	(a) Outside	F
(b) Using machinery	E	(b) Underground..	G
Composing Room Foremen, supervising only	C	Pile Drivers	G
Contractors.		Portable.	E
(a) Office duties only.	A	Sea-going vessels.	G
(b) Supervising only	B	Stationary engine	E
(c) Working (see specific classifications.)		Stationary engine in iron or steel works.	F
Coppersmiths.		Steam shovel.	F
(a) Shop work only.	D	Street car motor	E
(b) Outside work	E	Threshing machine	F
Cornice Setters.	F	Traction	F
Corrugated Iron Workers, crimping, etc	D	Tug Boat.	
Cotton Workers.		(a) River or harbor	F
(a) Classers or samplers	C	(b) Ocean work	C
(b) Dyers or printers.	D	Engravers, copper, gold, steel, stone or wood.	D
(c) Gin feeders	E	Etchers	D
(d) Packers or pressers	E	Feeders.	
(e) Weighers, laborers.	E	(a) Cylinder or rotary printing press....	D
Cracker Makers, working	D	(b) Lithographic printing press.....	D
Curriers (see Tannery employees.)		(c) Threshing machine.....	F
Cutters, boots, shoes, shirts, gloves or clothing.		Ferryman, steam ferry-boat.....	E
(a) Hand work only	D	Fire Escape Builders.	
(b) Die work.	E	(a) Not putting up.....	E
Creamery Operatives, butter and cheese makers	D	(b) Putting up.....	F
Decorators, inside work only..	D	Firemen.	
Die Engravers or Die Sinkers	D	(a) Ferry boat.....	F
Dressmakers, male	C	(b) Kiln, cement, brick or tile works....	E
Dyers...	D	Fire Patrol or Salvage Corps Members.....	E
Electrical Employees	E	Firemen—City fire department.....	G
Electroplaters	D	Fish Curers.....	D
Electrotypers..	D	Flax Dressers.....	D
Elevator Builders.	E	Fresco Painters, inside work.....	D
Elevator Operators.		Furniture Movers.....	D
(a) Passenger	D	Gang Sawyers.....	F
(b) Freight.	E	Gas or Steam Fitters, plumbers.....	E
Embalmers..	C	Gas pipe line (natural) employees.....	E
Embossers	D	Gaugers.	
Embroidery Stampers	C	(a) U. S. revenue service.....	A
Enamelers	D	(b) Store or warehouse.....	A
Engineers or Firemen.		(c) Distillery.....	D
Dredge boat	F	(d) Oil well or tank.....	D
Electric motor	E	(e) Water, milk, mill, cotton or linseed oil.	D
Hydraulic..	D	Gilders, in shop.....	D
Lake, river or sound, high pressure	G	Gold Heaters, refiners or workers.....	D
Lake, river, sound or ferry, low pressure.	F	Grain Elevator employees.....	E
Locomotive (see Railroad Employees.)		Grain Samplers, visiting freight yards.....	E
		Glaziers.....	D
		Grave Diggers.....	D

## 7. SKILLED LABOR TRADES AND MECHANICAL PURSUITS CONCLUDED.

Grinders, mill spindles, edged tools, etc.....	F	Printers (see compositors.)	
Hair Workers.....	C	Riveters.....	E
Harness Makers.....	D	Roofers, slate, tin, composition, metal, gravel or wood.....	F
Heliotypers.....	C	Saddlers.....	D
Hod Carriers.....	F	Saw Filers.....	D
House Painters.....	E	Scourers and Dyers.....	D
Ivory, Bone or Wood Cutters or Turners....	E	Sewer Pipe Workers.....	F
Japanners.....	D	Sewer Workers, employees.....	F
Jewelers, working at bench.....	F	Sewing Machine Makers or Repairers.....	F
Kalsominers.....	E	Ship Building Employees.....	F
Letter Cutters, marble or stone.....	D	Silversmiths.....	D
Lamp Lighters.....	D	Sheet Iron Workers.....	E
Lath Machine Operators.....	E	Slaters.....	F
Lathers.....	D	Soap Boilers.....	E
Launderers, employees in laundry.....	E	Spinners, silk warp or thread.....	D
Leather Workers, dyers, splitters, dressers, etc.	E	Stage Carpenters.....	E
Lithographic Workers.....	D	Stair Builders.....	E
Lobster Boilers.....	D	Stave, Heading and Hoop Mill Employees (see Coopers).....	F
Locksmiths.....	D	Stereotypers.....	D
Loom Fixers.....	E	Stone Dressers, cutter, finisher, sawyer or molder.....	E
Machinists.....	E	Structural Iron Workers on buildings.....	F
Mail Agents on Trains.....	D	Stucco Workers.....	F
Mantel or Tile Setters.....	D	Tailors, working.....	E
Masons, stone work.....	E	Telegraph Builders or Repairers.....	F
Metal Refiners or Workers.....	D	Telegraph Linemen.....	E
Millers, flour, grain or tale.....	D	Telephone Linemen.....	E
Millwrights.....	E	Tinners.	
Monument Builders.....	E	(a) Spouters or Drain Setters.....	E
Morocco Dressers.....	D	(b) Shop work only.....	D
Morocco Dressers, using acids.....	E	(c) Bridge work.....	F
Oilers in shops, mills or factories.....	E	Toll Gate Keepers.....	D
Organ Builders or Repairers.....	E	Truckmen, not drivers.	
Organ or Piano Tuners.....	A	(a) Handling light parcels.....	E
Oven Builders.....	E	(b) Handling heavy parcels.....	F
Packers of beef, pork or flour.....	E	Typewriter Adjusters and Repairers.....	D
Painters.		Upholsterers.....	D
(a) Carriage, coach or wagon, in shop....	D	Varnishers.....	D
(b) Signs, in shop.....	D	Warehouse Laborers.....	F
(c) House or sign.....	E	Water Works Employees.....	E
(d) Decorative, fresco or scene.....	D	Weighers.....	D
(e) Artists, studio only.....	C	Wharf Laborers.....	F
(f) Bridge work.....	F	Wheelwrights.....	E
Paper Hangers.....	D	Whitesmiths.....	D
Pavers, working.....	E	Whitewashers.....	E
Photographers.....	C	Wire Workers, screens, railings, counter guards, ornamental fences, etc.....	E
Piano Movers.....	D	Wool Pullers, samplers, classers, sorters, etc..	D
Plasterers.....	E		
Platers.....	D		
Plumbers, Steam or Gas Fitters.....	E		
Pressmen (printers).....	D		

## 8. TRANSPORTATION, MINING, QUARRYING.

Baggage or Transfer Agents, driving wagon or handling goods.....	E
Drivers and Teamsters.	
(a) Carriage, hearse, horse car, light parcel delivery wagon, mail van, private coach or any conveyance for the delivery of household supplies.	D
(b) Cab, dray, express wagon, hack, omnibus, public coach, stage or truck...	E
(c) Brewery, mineral water, ice or coal wagon, cart or dray and sprinkling carts.....	F
Express Agents.	
(a) Office duties only.....	B
(b) Handling Goods.....	D
(c) On trains.....	E
Hostlers.....	E
Livery Stable Keepers.	
(a) Proprietor, supervising only.....	C
(b) Proprietor, working and driving....	D
(c) Hostlers or stablemen.....	E
Miners—Coal, copper, gold, iron, lead, quartz, silver, zinc and all other kinds of mining.	
(a) Operators, not working, or office duties only.....	A
(b) Operators, Managers or Superintendents, supervising only.....	C
(c) Bookkeepers, office duties only.....	D
(d) Engineers of mining operations.....	E
(e) All other employees outside.....	F
(f) All employees under ground.....	G
Quarrymen.	
(a) Managers or Superintendents, not working, or office duties only.....	A
(b) Quarrymen, working.....	F
Railroad Officials and Employees not classified under <i>Official and Clerical</i> .	
Baggagemen.	
(a) At station.....	D
(b) On passenger trains.....	E
(c) On mixed trains.....	F
Boss of Wrecking Gang, supervising only..	F
Bridge or Trestle Builders.	
(a) Foremen, supervising only.....	F
(b) Workmen.....	G
Brakemen.	
(a) Passenger train, air brakes only....	E
(b) All other trains.....	G
Caller.....	E
Car Accountants or Checkers, visiting yards.....	D
Car Cleaners.....	E
Car Couplers.	
(a) Passenger cars without air brakes.	F
(b) All other trains.....	G
(c) In yards.....	G
Car Repairers.....	F
Car Tracers, visiting yards.....	E
Conductors.	
(a) Dining, drawing room, sleeping car or passenger train.....	C
(b) Cattle, coal, freight, oil or mixed train.....	F
(c) Construction, gravel, logging or repairing train.....	G
Cooks.	
(a) Dining or hotel car.....	D
(b) Work train.....	E
Coal Heavers.....	F
Cranemen, steam shovel.....	F
Construction train laborers.....	G
Dispatchers, in yard.....	F
Doormen or Gate Keepers at Stations....	C
Employees.	
(a) On ditchers.....	F
(b) On pile drivers.....	F
Engineers.	
(a) Passenger trains.....	E
(b) Cattle, coal, freight, oil or mixed trains.....	F
(c) Construction, gravel, logging or repair trains.....	G
Express Messengers, train service.....	E
Fence Builders or Repairers.....	D
Firemen, locomotive.....	G
Flagmen, Targetmen, Signalmen.....	E
Flagmen, freight train.....	G
Foremen, not working.	
(a) At freight houses.....	D
(b) At shops.....	E
(c) At round houses.....	E
(d) At section gang.....	F
(c) Coal heavers.....	E
(f) Pile driver crew.....	F
(g) Switching crew, coupling or switching in yard.....	G
Freight Agent at station, general duties..	E

## 8. TRANSPORTATION, MINING, QUARRYING—CONCLUDED.

Freight Handlers, in freight or warehouses..... E	Section Men..... G
Greasers, Wipers, Cleaners or Boiler Washers..... F	Tallymen in freight houses.
Hostlers or Assistants..... F	(a) Not handling freight..... D
Laborers.	(b) Handling freight..... E
(a) In freight house or elevator..... F	Telegraph Builders or Repairers..... E
(b) On construction, work or wrecking train..... G	Tinners, bridgework..... F
Machinists or Helpers in shops..... E	Truckmen.
Painters.	(a) Inside at depot..... E
(a) Bridge or yard work..... E	(b) In freight or warehouses..... F
(b) Shop work only..... D	Turntable Men..... E
Pilots, coal train..... G	Waiters, dining or hotel cars..... D
Porters, dining, drawing room or sleeping car..... D	Watchmen..... E
Station Agents.	Wrecking Train Employees..... G
(a) Office duties only..... C	Yard Master, supervising only..... F
(b) General duties..... D	Yard Employees, general duties..... G
Stewards, dining car..... D	Slate Quarriers..... F
Store Keepers.	Street Railway, cable, horse, elevated or electric.
(a) Not handling goods..... C	(a) Superintendents or Managers, supervising only..... A
(b) Handling goods..... D	(b) Superintendents or Foremen of Construction or Repairs, supervising only..... C
Switchmen, not coupling..... E	(c) Car Dispatchers, Inspectors, Roadmasters, Storehouse Keepers, Transfermen, Conductors, Time Keepers..... D
Switchmen, switching and coupling..... G	(d) All others..... E
Switch Tenders, not switching, coupling or braking..... E	

## 9. VARIOUS OUT-DOOR PURSUITS AND OCCUPATIONS NOT OTHERWISE SPECIFIED.

Advertising Agents—Outside work, distributors, bill posters, etc..... D	Chainbearers (surveying)..... C
Agricultural Implements—Salesmen, setting up and running machines..... D	Charcoal Burners..... D
Bee Keepers..... B	Cistern Builders and Repairers..... E
Bill Posters..... D	Cistern Cleaners..... E
Cattle Dealers—not tender or drover, not on farm, ranch or in yard and not visiting pens or yards or handling stock..... A	Coffee Plantation.
Cattle Dealers—Visiting pens or yards and handling stock..... F	(a) Proprietor or Superintendent, supervising only..... A
Cattle Raisers or Breeders, on farm or ranch.	(b) Employees, working..... C
(a) Proprietor or Superintendent, supervising only..... A	Cotton Plantation.
(b) Tending or caring for stock..... E	(a) Proprietor or Superintendent, supervising only..... A
(c) Laborers tending or caring for stock.. F	(b) Employees, working in field..... C
Cattle Shippers and tenders in transit..... F	Cowboys on ranch or tending stock in transit... F
	Dairymen.
	(a) Proprietors or Foremen, supervising only..... A
	(b) Employees milking or tending stock..... D

9. VARIOUS OUT-DOOR PURSUITS AND OCCUPATIONS NOT OTHERWISE  
SPECIFIED—CONCLUDED.

Drovers.		Nurserymen.	
(a) Tending stock in transit	F	(a) Proprietors, office duties or general supervision only	A
(b) Not tending stock in transit	C	(b) Working in field	B
Farmers.		(c) Employees.	C
(a) Owner or Superintendent, supervising only	A	(d) Tree agent, not delivering or setting.	B
(b) Working	B	(e) Tree agent, delivering or setting	D
(c) Farm Laborers, not teamsters	C	Orange Groves.	
Florists.		(a) Proprietors or superintendents, supervising only.	A
(a) Proprietors or Superintendents, outside, superintending only	A	(b) Employees, working	E
(b) Proprietors or Superintendents, working.	B	Overseers or Superintendents on farms, plantations or ranches, supervising only	A
(c) Employees.	C	Planters.	
Game Keepers..	D	(a) Proprietors or Superintendents, supervising only.	A
Gardeners.		(b) Working	B
(a) Superintending only	A	Poultrymen, feeders, killers, dressers or packers	E
(b) Working..	B	Prospectors, mining	F
(c) Employees...	C	Ranchmen.	
Guides, not trappers or hunters	E	(a) Proprietor or Superintendent, supervising only.	B
Hay Pressers	D	(b) Tending stock	E
Hedge, Shrub and Tree Trimmers	E	Scavengers, Garbage Collectors, Nightmen.	F
Herders	E	Seed Growers, outside duties only.	C
Horse Breakers or Trainers	G	Sheep Farmers, Raisers or Breeders.	
Horse Dealers.		(a) Proprietors or Superintendents, supervising only	A
(a) Not handling, shipping or tending in transit..	B	(b) Proprietors or Superintendents, working	B
(b) Handling, shipping and tending in transit.	F	(c) Employees.	C
Hunters	F	Stock Raisers or Breeders (cattle, hogs, horses, mules, etc.)	
Ice Cutters. ....	F	(a) Proprietors or Superintendents, supervising only.	A
Kilnburners.	E	(b) Proprietors or Superintendents, tending or caring for stock	D
Kindling Wood Choppers	E	(c) Employees	E
Laborers, day.		Stock Yards Employees.	F
(a) Not on farm	F	Teamsters.	
(b) Farm laborer.	C	(a) In woods.	G
Land Looker.	B	(b) On farm or plantation.....	C
Land Surveyors, field work	B	Threshers with machine	F
Lumbermen in Woods.		Tile Ditchers	E
(a) Proprietors, business managers or superintendents, general supervision only.	B		
(b) Cook, foremen, overseer in woods	C		
(c) All other employees	G		
Milkmen, milking, tending stock or delivering	D		

9 VARIOUS OUT-DOOR PURSUITS AND OCCUPATIONS NOT OTHERWISE  
SPECIFIED—CONCLUDED.

Tile Layers or Setters.	D	Well Drillers, any kind of well.	
Timber Hewers	E	(a) Using explosives	G
Vine Growers	B	(b) Not using explosives	F
Well Borers, (artesian)	D	Wood Choppers.	F
Well Diggers	F	Woodsmen...	F

















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